ARCAM

English

fMJ BDP300

HANDBOOK Blu-ray Disc player

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safety guidelines

CAUTION	ATTENTION
RISK OF ELECTRIC SHOCK DO NOT OPEN	RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR

CAUTION: To reduce the risk of electric shock, do not remove cover (or back). No user serviceable parts inside. Refer servicing to qualified service personnel.

WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

The lightning flash with an arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated 'dangerous voltage' within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

CAUTION: In Canada and the USA, to prevent electric shock, match the wide blade of the plug to the wide slot in the socket and insert the plug fully into the socket.

CAUTION: Use of any controls, adjustments or procedures other than those specified herein may result in hazardous radiation exposure.

Important safety instructions

1. Read these instructions.

2. Keep these instructions.

3. Heed all warnings.

4. Follow all instructions.

5. Do not use this apparatus near water.

6. Clean only with dry cloth.

7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9. Do not defeat the safety purpose of the polarized or grounding-type plug.

A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11. Only use attachments/accessories specified by the manufacturer.

12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus.

When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13. Unplug this apparatus during lightning storms or when unused for long periods of time.

14. Refer all servicing to qualified service personnel.

Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

15. Object or liquid entry

WARNING – Take care that objects do not fall and liquids are not spilled into the enclosure through any openings. The equipment shall not be exposed to dripping or splashing. Liquid-filled objects such as vases should not be placed on the equipment.

16. Climate

The equipment has been designed for use in moderate climates and in domestic situations.

17. Cleaning

Unplug the unit from the mains supply before cleaning.

The case should normally only require a wipe with a soft, lint-free cloth. Do not use chemical solvents for cleaning.

We do not advise the use of furniture cleaning sprays or polishes as they can cause permanent white marks.

18. Power sources

Only connect the equipment to a power supply of the type described in the operating instructions or as marked on the equipment.

The primary method of isolating the equipment from the mains supply is to remove the mains plug. The equipment must be installed in a manner that makes disconnection possible.

19. Abnormal smell

If an abnormal smell or smoke is detected from the equipment, turn the power off immediately and unplug the equipment from the wall outlet. Contact your dealer and do not reconnect the equipment.

20. Damage requiring service

The equipment should be serviced by qualified service personnel when:

A. the power-supply cord or the plug has been damaged, or

B. objects have fallen, or liquid has spilled into the equipment, or

C. the equipment has been exposed to rain, or

D. the equipment does not appear to operate normally or exhibits a marked change in performance, or

E. the equipment has been dropped or the enclosure damaged.

WARNING - The mains plug is used as a disconnect device, the disconnect device shall remain readily operable.

WARNING - The batteries shall not be exposed to excessive heat, such as sunshine or fire.

CAUTION - Danger of explosion if batteries are incorrectly replaced. Replace only with the same or equivalent type.

Safety compliance

This equipment has been designed to meet the IEC/EN 60065 international electrical safety standard.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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welcome

Thank you and congratulations for purchasing your Arcam FMJ Blu-ray Disc player.

Arcam has been producing specialist hi-fi and home cinema products of remarkable quality for over three decades and the BDP300 – which plays Blu-ray Discs, DVD-Video discs and Audio CDs – is the latest in a long line of award winning home cinema equipment. The design of the FMJ range draws upon all of Arcam's experience as one of the UK's most respected audio companies and is built to give you years of trouble-free listening enjoyment.

This handbook has been designed to give you all the information you need to install, connect and use the Arcam BDP300 Blu-ray Disc player. The CR104 remote control handset supplied with this equipment is also described. Use the contents list shown on this page to guide you to the section of interest.

We hope that your FMJ Blu-ray Disc player will give you years of trouble-free operation. In the unlikely event of any fault, or if you simply require further information about Arcam products, our network of dealers will be happy to help you. Further information can also be found on the Arcam website at ***www.arcam.co.uk****.*

The FMJ development team

English

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installation

Arcam's BDP300 provides class-leading sound quality from Blu-ray Discs, DVD-Video discs and compact discs.

The BDP300 has a state-of-the-art Delta-Sigma DAC (Digital-to-Analogue Converter) which provides audiophile sound quality for video and audio discs.

The BDP300 is supplied with the CR104 'universal' remote control, which is simple to use and can control up to eight audio devices – such as an amplifer, television or Personal Video Recorder.

The high performance BDP300 Blu-ray Disc player is designed to truly bring your movies and music to life.

Placing the unit

- Place the BD player on a level, firm surface, avoiding direct sunlight and sources of heat or damp.
- Do not place the BD player on top of an amplifier or other source of heat.
- Do not place the BD player in an enclosed space such as a bookcase or closed cabinet unless there is good provision for ventilation. The BD player is designed to run warm during normal operation.
- Do not place any other component or item on top of the BD player as this may obstruct airflow around the unit, causing the BD player to run hot.
- Make sure the remote-control receiver (next to the display on the front panel) is unobstructed, or remote control will be impaired.
- Do not place your record deck on top of this unit. Record decks are very sensitive to the noise generated by mains power supplies which will be heard as a background 'hum' if the record deck is too close.

Power

The BD player is supplied with a moulded mains plug already fitted to the lead. Check that the plug supplied fits your supply – should you require a new mains lead, please contact your Arcam dealer.

If your mains supply voltage or mains plug is different, please contact your Arcam dealer immediately

Push the IEC plug end of the power cable into the socket on the back of the BD player, making sure that it is pushed in firmly. Plug the other end of the cable into your mains socket and, if necessary, switch the socket on.

The remote control and trigger inputs

The **REMOTE IN** input can be used to pass RC5 codes to the BDP300 if it is installed in a position, or a system, where infrared cannot be used. If this is required, please contact your dealer for further information.

The **TRIGGER IN** input can be used to switch the BDP300 in and out of standby. Connecting the trigger output of your Arcam amplifier (or other compatible device), will cause the BDP300 to come out of standby automatically when the amplifier is switched on, returning to standby when the amplifier is switched off. Please see your amplifier handbook for further information.

In normal use there is no need to make any connections to these inputs.

NOTE

The remote control input requires a mono 3.5mm jack, with the tip active and the sleeve grounded.

The remote control signals must be in modulated RC5 format (at 36kHz), with a voltage level of between 5V and 12V.

The **RS232** input is for optional connection to a home automation system or a computer. Various third-party systems are available providing sophisticated control over all your entertainment devices using touch screens etc. Contact your dealer or installer for further details. The technical details of the remote control protocol are available from Arcam on request (email ***support@arcam.co.uk***).

Interconnect cables

We recommend the use of high-quality screened cables that are designed for the particular application. Other cables will have different impedance characteristics that will degrade the performance of your system (for example, do not use cabling intended for video use to carry audio signals). All cables should be kept as short as is practically possible.

It is good practice when connecting your equipment to make sure that the mains power-supply cabling is kept as far away as possible from your audio cables. Failure to do so may result in unwanted noise in the audio signals.

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Zone 1 audio output

Connect these to your amplifier's CD (or other line-level) input using suitable high quality interconnect cables. Ensure that the left and right audio outputs from the BD player are connected to the same left and right inputs on your amplifier.

Coaxial digital output

Use this socket if you are using an AV receiver with a coaxial digital input. Connect to the digital input using a suitable 75Ω screened cable.

CAUTION: Never connect the digital output socket to a conventional audio input.

USB connection

Insert USB flash memory devices here. USB memory can be used to save downloaded content. The BDP300 can also play certain digital files stored on USB memory drives: see page E-8.

12V trigger input

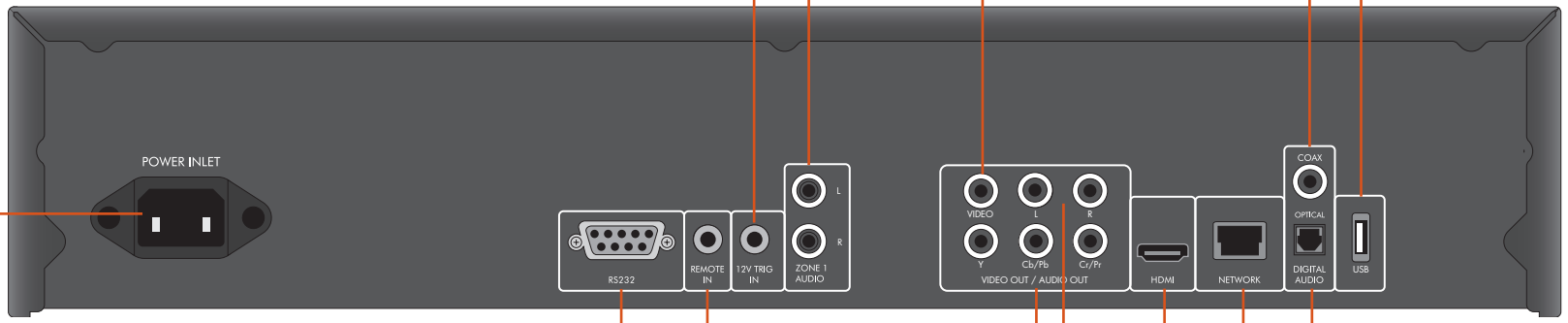
This socket allows the BDP300 to be switched in and out of standby mode by an amplifier (or another item of AV equipment) with a **12V TRIG OUT** function: see page E-4.

Composite video output

Connect this output to your display if the display does not support any other connection types.

Power inlet

Connect the correct mains cable here.



RS232

This connection allows for remote control from a third-party home automation system or computer: see page E-4 for more information.

Component video output

If your display does not support HDMI but has a component input (Y, Pb, Pr), connect it to this video output.

Optical digital output

Use this socket if you are using an AV receiver with an optical digital audio input.

Network connection

Connect this socket to a port on your network router using an Ethernet patch cable: see page E-9. An internet connection enables interactive content for BD-Live discs. For setup details, see 'Network' on page E-21.

Remote in

This allows remote-control signals to be received by the BDP300 if the remote sensor is covered (or otherwise not 'visible' to the remote-control: see page E-4 for more information.

L, R audio output

Use this analogue output (L, R), to provide audio for use in your AV receiver's Zone 2. It can also be used to connect a recording device or headphone amplifier.

HDMI digital video output

Connect this output to your display or AV receiver if available for the best digital video and audio connection: see page E-7 .

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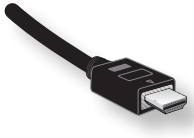
Making video connections

To view the pictures from the BD player you need to connect one of its video outputs to your display device (TV, monitor, projector, etc.) or AV receiver (such as the Arcam AVR600).

The BDP300 has three video output options, described below. You need only use one type of video from the list; choose a type that your display device or AV receiver supports. If your equipment does not support any of the above connection types then you will be unable to use it directly with the BDP300 and a video converter device may be required. In this case, please contact your dealer for further assistance.

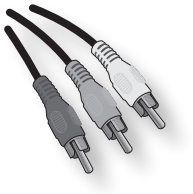
AV receivers and other video processing devices may be connected between the BDP300 and your display. Ensure that all the equipment supports the type of video signal you intend to use. For instructions on how to connect AV equipment, consult the manual for that equipment.



HDMI DIGITAL VIDEO

The HDMI connector offers uncompressed digital video and audio transmission between the BDP300 and the display device, and provides the highest quality output. Generally, it is also the easiest connection type to configure.

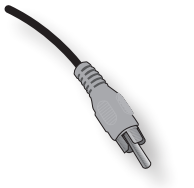
To use this video connection, you will require a HDMI or HDMI/DVI cable between the BDP300 and your display device or receiver. See page E-7 for further details.



COMPONENT VIDEO

Use three 75Ω phono cables to connect the Component Y, Pb, Pr outputs of the BD player to the Y, Pb, Pr inputs of the display device. Ensure that the cables are suitable for video use and that they are approximately the same length.

If your television is capable of accepting a progressively scanned (de-interlaced) video signal, you may wish to use the progressive video output from the BDP300. If you are unsure whether your display device can accept progressive video, please refer to its instruction manual or consult your dealer.



COMPOSITE VIDEO

If your display device offers only a composite input (sometimes labelled CVBS or just 'video'), connect this to the **COMPOSITE** video output of the BD player using a 75Ω phono cable suitable for video use. Note that a composite video connection gives the lowest-quality output; if your display device supports other video connection types, we advise that those are used instead.

Making audio connections

The BDP300 offers a number of alternatives for connecting audio. The connection type to use depends on the rest of your system; chose the type most appropriate to your amplifier.

If you want to listen to audio through…	*… we recommend the following:*
Your television	How you listen to audio through your TV depends on the inputs it has and your video connection: ■ HDMI: If you are using an HDMI connection (not DVI), this will carry both audio and video. No further connection is required. ■ Digital Audio (Coaxial or Optical): If your TV has Digital Audio ***inputs*** on Coaxial or Optical connectors, connect the appropriate digital audio lead between the TV input and the appropriate BDP300 digital output. Do not make a connection between the BDP300 and a TV's Digital Audio ***output.*** ■ Stereo phono: If your TV has stereo phono inputs, follow the instructions below for a stereo amplifier.
Your stereo amplifier	If you wish to listen to audio from your player through a stereo amplifier, then use the stereo analogue outputs. These outputs provide a stereo down-mix of the source material. Using a stereo phono cable of a suitable length, connect the outputs labeled **ZONE 1 AUDIO** to the left and right inputs (respectively) for DVD or CD on your amplifier.
Your surround-sound receiver	Connect the HDMI output to your receiver (for audio and video) if the receiver supports audio over HDMI. The HDMI connection supports all possible audio formats including Dolby TrueHD, DTS Master Audio and multichannel PCM. If your receiver does not support HDMI audio, connect one of the Digital Audio outputs (Optical or Coaxial) to the 'Blu-ray', 'BD' or 'DVD' input of your receiver. These digital outputs provide PCM, Dolby Digital, DTS or MPEG multi-channel audio, depending on the source material. The BDP300 can also be set to re-encode all audio to DTS ('Bitstream Mixed') (see 'Audio' on page E-21). This option provides the best surround sound quality for Digital Audio connections. You may also wish to connect the stereo analogue audio outputs to the CD input on your receiver, for listening to CDs. This will allow the BDP300's audiophile digital-to-analogue circuitry to be utilised, for the best stereo sound quality.

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The HDMI interface

If you have a HDMI- or DVI-equipped monitor or display, you can connect it to the BDP300 using a HDMI cable. The HDMI connector carries uncompressed digital video, as well as digital audio.

About HDMI

HDMI (High Definition Multimedia Interface) supports both video and audio on a single digital connection for use with Blu-ray Disc players, digital TV, set-top boxes, and other AV devices. HDMI was developed to combine the technologies of High-bandwidth Digital Content Protection (HDCP) and the Digital Visual Interface (DVI) in one specification, with the addition of transmission of digital audio information; HDCP is used to protect digital content transmitted to DVI-compliant displays.

HDMI has the capability to support standard or high-definition video, together with stereo or multi-channel surround-sound audio. HDMI features include uncompressed digital video, one connector (instead of several cables and connectors), and communication between the AV source and AV devices.

Connecting using HDMI

Use a HDMI cable to connect the **HDMI** socket on this player to a HDMI socket on a compatible display device or receiver. The arrow on the cable connector body should be face up for correct alignment with the connector on the BDP300. If the BDP300 video resolution has been configured to 'HDMI Auto', then the BDP300 will configure its video output automatically to match the capabilities of the attached HDMI device.

NOTE

- A HDMI connection can be made only with HDMI or DVI-equipped components compatible with both DVI and HDCP. Note that if you choose to connect to a DVI device, you will need an adaptor (HDMI to DVI) to do so; a DVI/HDCP connection, however, does not support audio signals.
- If you require further information on the possibilities for connecting your BDP300 to your DVI/HDMI equipped display device, please contact your Arcam dealer.

Troubleshooting HDMI

Problems with video

No video (blank screen)

- Check that the HDMI cable is connected correctly at both ends. If an HDMI-equipped A/V receiver is in use, try connecting the BDP300 directly to the display device, in order to isolate where the fault may lie.
- Check that the display device is set to display the HDMI input (i.e., has not been set to some other video input, instead).
- Check that the HDMI input of the receiver and/or display device is enabled. See the user handbook of the connected device for details on doing this.
- Using an alternative video display device (e.g., connected via the composite video out), check that video is output.
- Consult the user handbook of the display device to ensure that it can handle the output formats provided by the BDP300. The BDP300 can provide the following:

720 x 480p (NTSC progressive scan)	1280 x 720p
720(1440) x 480i (NTSC interlaced)	1920 x 1080i
720 x 576p (PAL progressive scan)	1920 x 1080p
720(1440) x 576i (PAL interlaced)	

At least one of these standards must be supported by the connected device in order for it to work with the BDP300.

No video (random noise)

Random noise will be displayed if the content-protection algorithm fails to authenticate the attached device. This will occur, for example, if a DVI device that does not support HDCP (such as a computer monitor) is connected to the BDP300.

To attempt to isolate this problem, remove all discs from the BDP300, then power-off both the BDP300 and the connected display device. Switch the display device on, then the BDP300 – at this point, the idle logo of the BDP300 should be shown on the display device. If this is not the case, please check the items listed above for a blank screen.

If the noise appears when a copy-protected disc (Blu-ray/DVD) is played, then it is the authentication that is failing. Please contact your dealer for further information.

Problems with audio

The type of audio provided by the HDMI connector depends on the configuration of the BDP300 (see 'Audio' on page E-20). Choose a setting according to the capabilities of your audio system. Note that pure DVI devices (connections requiring a HDMI to DVI converter cable) do not support audio via this connection.

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disc & file formats

Playable discs

The player supports the following disc types:

Blu-ray 3D

Blu-ray Disc

DVD-Video

DVD-R

DVD-RW

CD-Audio

CD-R

CD-RW

Video file requirements (USB/Disc)

- Video file compatibility with your player is limited as follows:
  - Maximum resolution size: 1920x1080 (W x H) pixels
  - File extensions: .wmv, .avi, .mp4, .mpeg, .mpg, .vob, .mkv (Note: Files encoded by Divx cannot be played on this player)
  - Playable Audio format: Dolby Digital, DTS, MP3, WMA, AAC, AC3
  - Sampling frequency: within 32 to 48kHz (WMA), within 8 to 48kHz (Mp3)
  - Bit rate: within 32 to 192kbps (WMA), within 32 to 320kbps (Mp3)
- CD-R/RW, DVD R/RW, BD-R/RE Format: ISO 9660+JOLIET, UDF and UDF Bridge format
- Maximum Files/Folder: Less than 1000. The movie file name and subtitle are limited to 180 characters.
- Not all of the WMA and AAC Audio formats are compatible with your player.
- HD WMA movie files contained on a USB 1.0/1.1 flash drive may not play correctly.
- Blu-ray, DVD, or USB 2.0 are recommended to play back HD WMA movie files.
- Your player does not support files that are recorded with GMC (Global Motion Compensation) or Qpel (Quarter pixel). Those are video encoding techniques in MPEG4 standard, like DivX.

MP3/WMA audio file requirements (USB/Disc)

- File extensions: .mp3, .wma
- Sampling frequency: Within 32 to 48kHz (WMA), within 8 to 48kHz (Mp3)
- Bit rate: Within 32 to 192kbps (WMA) 32 to 320kbps (MP3)
- CD-R/RW, DVD R/RW, BD-R/RE Format: ISO 9660+JOLIET, UDF and UDF Bridge format
- Maximum Files/Folder: Less than 2000 (total number of files and folders)
- Depending on the size and number of the MP3/WMA files, it may take several minutes to read the contents of the media.
- HD WMA movie files contained on a USB 1.0/1.1 flash drive may not play correctly. Blu-ray, DVD, or USB 2.0 are recommended to play back HD WMA movie files.

Photo file requirements (USB/Disc)

- File extensions: .jpg, .jpeg, .png, .gif
- Recommended size:
  - PNG: 5120 × 5120 pixels
  - GIF: 10000 × 10000 pixels
  - JPEG/JPG: 8192 × 8192 pixels, 32MB
- CD-R/RW, DVD R/RW, BD-R/RE Format: ISO 9660+JOLIET, UDF, and UDF Bridge format
- Maximum Files/Folder: Less than 1000 (total number of files and folders)
- Progressive and lossless compression photo image files are not supported.
- Depending on the size and number of the photo files, it may take several minutes to read the contents of the media.

Region coding

Blu-ray Disc players and Blu-ray or DVD Video discs are assigned region codes according to the region in which they are sold. If the region codes do not match, the disc will not play.

Blu-ray Disc region code	Area
A	North America, Central America, South America, Korea, Japan, Taiwan, Hong Kong and South East Asia
B	Europe, Greenland, French territories, Middle East, Africa, Australia and New Zealand
C	India, China, Russia, Central and South Asia
A + B + C	All areas

DVD region code	Area
1	North America
2	Europe, Japan, Middle East, Egypt, South Africa, Greenland
3	Taiwan, Korea, the Philippines, Indonesia, Hong Kong
4	Mexico, South America, Central America, Australia, New Zealand, Pacific Islands, Caribbean
5	Russia, Eastern Europe, India, most of Africa, North Korea, Mongolia
6	China
All	All areas

Symbols indicating disc will play in North America:

Blu-ray Discs:

DVDs:

Symbols indicating disc will play in Europe:

Blu-ray Discs:

DVDs:

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Network connection

BD-Live discs can enable the downloading of extra content from the Internet. To enjoy on-line content, connect the Network socket of the BDP300 to a LAN port on your network router using an Ethernet patch cable (available from a computer supplies retailer).

A local network with Internet connection is required. If you do not connect to the Internet through a router (e.g. you connect a single computer directly), please contact your Internet Service Provider or an IT professional regarding setting up a home network.

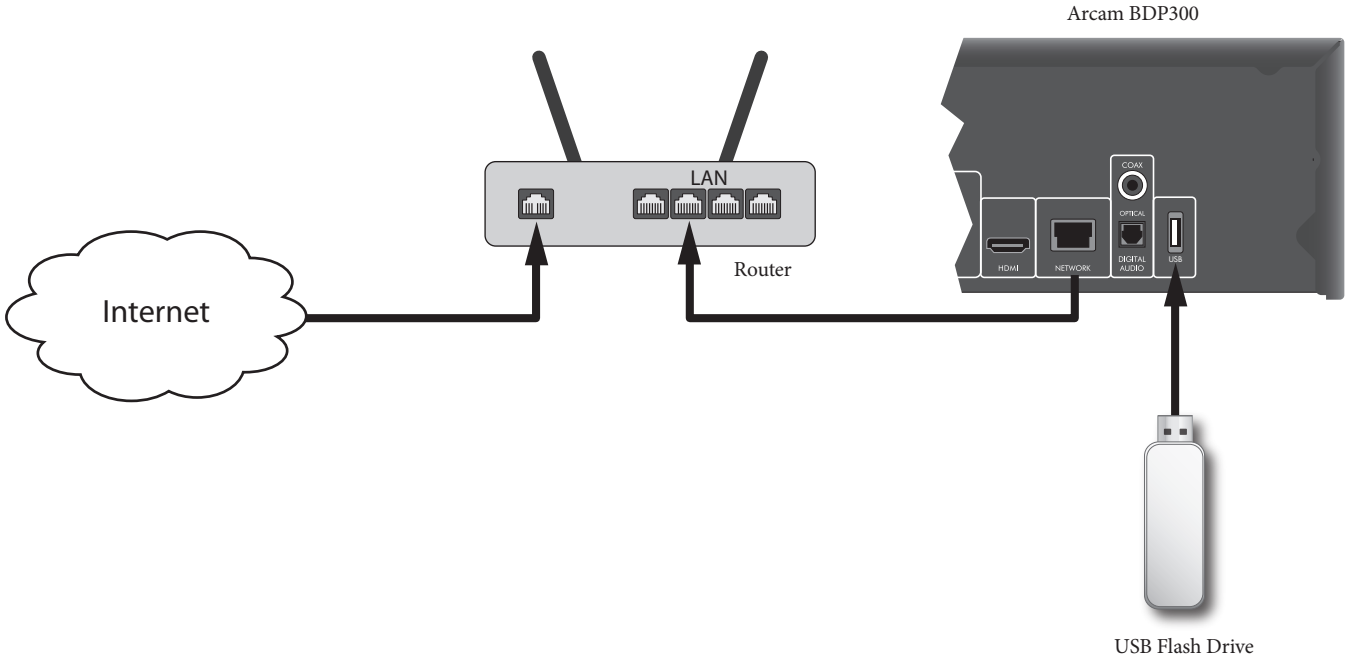
> ***NOTE***
> When the player is powered on with no network configured, a pop-up is shown on-screen.

USB connection

USB memory devices (flash drives) can be used for media playback and are necessary for storage of downloaded BD-Live content. To enjoy BD-Live content, the following specification is recommended:

- Capacity 2GB
- Formatted FAT32
- USB2.0 high speed (480Mbps).

Connect the USB device to the USB socket on the rear of the unit.



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basic operation

Introduction

'Basic operation' explains how to play a Blu-ray Disc (BD), DVD, CD or other type of disc. Note that it may be necessary to configure your player correctly for your system before optimum – or any – playback can be achieved. Player configuration is described beginning on page E-19.

More sophisticated features – such as special playback modes, programming jumps and playback sequences – are described in 'advanced operation' on page E-16.

Switching on

Switch the unit on by pressing the **POWER** button. The status LED glows green when the unit is powered up and red when in standby mode. The remote control is used to enter and exit standby mode. If the **POWER** button is pressed (or power is removed) whilst in standby, the unit will enter standby mode when power is re-applied.

Note that the remote control sensor is located on the right-hand side of the display window. Do not obstruct this or the remote control will not work.

Loading a disc

Press ■/⏏ on the front panel (or ⏏ on the handset) and place the disc on the tray, with the playback side facing down (some discs are double sided, in which case the side labelled 'side A' should face up to play side A).

Press ■/⏏ on the front panel to close the tray. The disc loads after a pause of a few seconds.

Playing a disc

A disc may take some time to load once the tray is closed. When the 'Optical Disc Autoplay' setting is set to On (the default setting), playback starts automatically. (For details, refer to 'Optical Disc AutoPlay' on page E-21).

If Autoplay is set to Off, the player's Main Menu will appear on your TV. Use the cursor keys to select the disc in **MY MEDIA**, then press (OK) to start playback.

Some titles begin by displaying a menu. Select the menu item 'Play movie' (or similar) using the cursor pad, then press (OK) to start playback.

For discs that do not play automatically, press ▶/ ❙❙ on the front panel or press ▶ on the remote control.

Fast play

Press ▶▶ or ◀◀ on the front-panel or remote control to play fast forwards or backwards. The following speeds for fast playback are available: x2, x4, x8, x16 and x32 (depending on disc type). Press the button repeatedly to cycle through the different speeds. To resume normal playback speed, press **PLAY**.

Skipping chapters/tracks

To skip chapters (or tracks on a CD), press ▶| or |◀.

When skipping back, the first button press takes you to the beginning of the current chapter. Pressing the button again takes you to the start of the previous chapter.

Pausing playback

Press ▶/ ❙❙ on the front panel or ❙❙ on the remote control to pause playback. To resume playback, press ▶/ ❙❙ on the front panel or ▶ on the handset.

Stopping playback

Press the ■/⏏ button on the front panel or ■ on the remote control to stop playback.

When playing a BD/DVD, pressing ■ once performs a 'resume stop'. If you now press ▶, playback resumes from the point it was stopped.

If you press ■/⏏ on the front panel or ■ on the remote control twice, this is a 'complete stop', and playback resumes from the beginning of the disc.

NOTE

When you press a button, if the unit does not accept its operation, ⃠ appears on the TV screen.

Invalid operation may also occur if :

- The region codes of the unit differs from that of the disc, so playback is not allowed.
- The parental control is set to prevent operation: see 'Security/Parental Control' on page E-22.
- Some operations may be prohibited due to disc manufacturer's settings.

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remote control

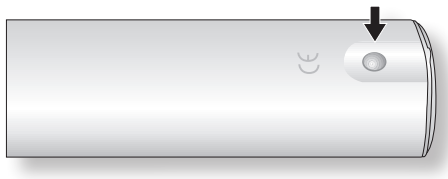
The BDP300 may be supplied with the CR104 universal remote control.

Using the remote control

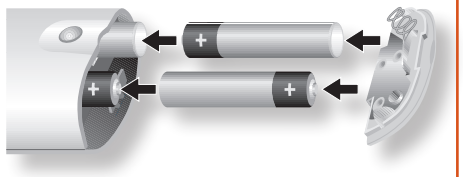
Please keep in mind the following when using the remote control:

- Ensure there are no obstacles between the remote control and the remote sensor on the front panel. The remote has a range of about 7 metres. (If the remote sensor is obscured, the IR in remote control input jack on the rear panel is available. Please consult your dealer for further information.)
- Remote operation may become unreliable if strong sunlight or fluorescent light is shining on the remote sensor of the unit.
- Replace the batteries when you notice a reduction in the operating range of the remote control.

Inserting batteries into the remote control



1. Open the battery compartment by pressing the button on the back of the handset.



2. Insert four 'AAA' batteries into the battery compartment – two facing the top of the unit, and two facing the end, as in the diagram.
3. Lower the end cap onto the plastic locating plate in the handset. This acts as a hinge, and you can now push the end cap firmly into its locked position with a click.

Notes on batteries:

- Incorrect use of batteries can result in hazards such as leakage and bursting.
- Do not mix old and new batteries together.
- Do not use non-identical batteries together – although they may look similar, different batteries may have different voltages.
- Ensure the plus (+) and minus (-) ends of each battery match the indications in the battery compartment.
- Remove batteries from equipment that is not going to be used for a month or more.
- When disposing of used batteries, please comply with governmental or local regulations that apply in your country or area.

The CR104 complies with Part 15 of the FCC rules

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide a reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiated radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet or a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

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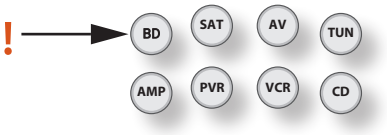
The CR104 remote

The CR104 is a sophisticated 'universal' remote control that can control up to eight devices – including the BDP300. As it's a 'learning' remote, it can copy almost any function from an existing single-device remote. You can also program the CR104 to issue a sequence of commands ('macros') from a single button press.

Select the source key first

Remember to select a source key ***before*** pressing command buttons – commands vary depending on the source selected.

To operate the BDP300 from the remote, first press the **BD** source button.



DISP (display)

Press to cycle through the front panel display's brightness options (dim to bright, off).

Source selection and handset configuration

BD	BD input/BD controls
SAT	Satellite decoder input/SAT controls
AV	Television (sound) input/AV controls
TUN	Radio tuner input/TUN controls
AMP	Arcam amplifier
PVR	Personal Video Recorder input/controls
VCR	Video Cassette Recorder input/controls
CD	CD player input/CD controls

Press the relevant button once to select input and reconfigure the handset.

Press and hold the button until the power LED blinks once if you wish to reconfigure the handset without changing the input.

Navigation buttons

Arrow buttons allow navigation around the settings menus on the BDP300 and disc menus.

Confirm a selection by pressing (OK).

MODE

This button activates the Picture-in-Picture Secondary Video function, where available.

MUTE

Press once to mute an Arcam amplifier. Press again (or use +/– volume) to un-mute.

VOLUME +/–

Adjusts the volume of an Arcam amplifier.

OPEN

Opens and closes the disc tray.

SETUP

Press **SETUP** to access the system settings menu.

On/Standby

This allows the BDP300 to be put into and taken out of standby remotely.

Numeric keys, 0–9

Used for data entry. Also gives direct access to individual tracks on audio CDs.

RND

Toggles random ('shuffle') play of chapters/tracks on and off.

Press (SHIFT) followed by (RND) to cycle through repeat play options (chapter, title, disc, etc.).

STATUS

Toggles the disc information display.

Press (SHIFT) followed by (STATUS) to cycle through the HDMI output resolutions (only available from the Home screen).

MENU

Activates the BD 'popup' menu or the DVD Video menu.

RTN

Navigates to the previous menu.

⏮ ⏭

Press to skip backwards to the previous track(⏮) or forwards to the next track (⏭).

Playback control

Play (▶), Pause (❙❙) and Stop (■).
SHIFT+❙❙ activates slow playback.

Advanced controls

These buttons are described on the next page.

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Playback and advanced controls

NOTE

Many of these controls are labelled according to the functions assigned to other device modes. For example, the ⏩ key activates the Bass control of an A/V receiver when the remote is in **AMP** mode.

Transport control buttons

⏪	Fast rewind.
▶	Starts playback.
⏸	Pause playback. Press ▶ to resume playback. When paused, pressing ⏸ advances one frame. **SHIFT** + ⏸ activates slow motion playback.
⏩	Fast forward.
⏏	Open / Close the disc tray.
■	Stop playback
●	Cycles through different camera angles, if present on the disc.

RED/GREEN/YELLOW/BLUE

The colour-coded buttons **RED**, **GREEN**, **YELLOW** and **BLUE** provide interactive controls for Blu-ray Discs and some player functions and will be displayed on-screen. They are accessed by first pressing **SHIFT** followed immediately by the button required. Their function depends on the disc and the part of the disc being viewed.

ANGLE

Displays Angle menu, to allow selection of different camera angles, if present on the disc.

SRCH

Displays Search menu with Time, Title and Track options.

SETUP

Ensure no disc is playing and press **SETUP** to access the 'Settings' menu.

TITLE

Press **TITLE** to access the DVD's 'Title' menu (a feature that only applies to multi-title discs) or to access the main menu if a Blu-ray Disc.

AUDIO

Some discs offer the facility to select different audio tracks. Press **AUDIO** to access a menu that allows selection of the available tracks. See 'Soundtrack selection' on page E-16.

SUBT

Cycles through the available subtitle languages, including 'Off'. Some discs force subtitles on, overriding any set up preferences.

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Useful information

Backlight

A blue backlight comes on for five seconds whenever a key is pressed. This helps you use the handset in subdued lighting conditions. It may be possible to hear a quiet tone being emitted from the remote control when the backlight is on. This is perfectly normal.

Power LED blinks

Short blinks indicate a valid key press.

Multiple short blinks convey information (such as a device code) or signal the beginning and successful completion of a programming sequence.

Long blinks indicate an invalid key press or entry.

The symbol '✲' is used in the manual to indicate a power LED blink.

Timeouts and unassigned keys

Time out – After 10 seconds the CR104 exits the programming state and returns to normal operation.

Stuck key timeout – After any key is pressed continuously for 30 seconds, the CR104 stops sending IR transmission to conserve battery life. The CR104 remains off until all keys are released.

Unassigned keys – the CR104 ignores any unassigned key presses for a particular Device Mode and does not transmit IR.

Low voltage indicator

When the batteries are running down, the IR transmit indicator on the CR104 (the LED under the Power button) flashes five times whenever you press a button:

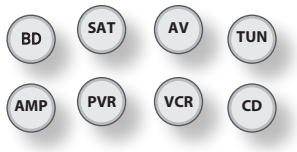
✲ ✲ ✲ ✲ ✲

If this happens, please fit four new AAA alkaline batteries as soon as possible.

Device Mode / Source keys

As the CR104 can control your BDP300, AVR500, AVR600 or AV888 as well as a range of other equipment, many of the buttons have more than one function depending on the 'device mode' selected on the remote control.

The Device Mode keys (shown below) select the source on the AVR500/AVR600/AV888. If one of these keys is pressed briefly, a command is transmitted to change the source on the unit. Also the functionality of the remote control changes to operate the selected source device. It's like having eight different remotes in your hand!



BD	BDP300 Blu-ray player
SAT	Satellite set-top box
AV	Audio-visual sound input (use with TV)
TUN	DAB, Sirius, FM or AM tuner
AMP	Controls the amplifier and setup features of the AVR500/AVR600 and AV888
PVR	Personal Video Recorder (or Digital Video Recorder)
VCR	Video Cassette Recorder
CD	Compact Disc player

If you press and hold a Device Mode key for about four seconds, you change the Device Mode of the CR104 ***without*** changing the signal source on the AVR500/AVR600/AV888. This can also be done by pressing (SHIFT) followed by a Device Mode key (within two seconds). These two methods allow you to change which device the CR104 controls without also changing the AVR500/AVR600/AV888 source, allowing uninterrupted listening.

Each Device Mode changes the behaviour of many of the CR104 keys to control the source device appropriately. For example:

In **CD** mode ⏮ plays the previous CD track.

In **AV** mode ⏮ issues the TV 'channel down' command.

The CR104 remains in the last selected Device Mode so it is not necessary to press a Device Mode key before every command key if all you are doing is playing or skipping tracks on a CD, for example.

Navigation keys

The Navigation keys steer the cursor in Setup menus or on-screen menus. They also replicate the navigation functions of original remotes supplied with other home entertainment devices in your system.

(OK) confirms a setting.

Volume control

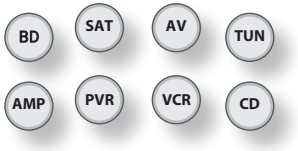
By default, the CR104 is set up so that the volume control buttons always control the volume of an Arcam amplifier or receiver, regardless of which Device Mode the remote is currently set for. This is known as volume 'punch through'.

For example, if you are listening to a CD, you will probably have the CR104 in **CD** Device Mode to control the CD player. You can use the volume controls on the remote directly to adjust the volume of an Arcam amplifier without first having to press (AMP) to put the remote into **AMP** Device Mode. The volume buttons 'punch through' the **CD** Device Mode on the remote to the **AMP** Device Mode. Volume 'punch through' can be disabled individually for any Device Mode if desired.

Controlling other devices

Method 1 (Direct code setup)

This section describes the simplest (preferred) way to program the CR104's Device Mode keys to control the non-Arcam devices in your system.



- Some of the modes are locked to Arcam operation but can be unlocked if required: see 'Locking/unlocking a specific Device Mode' on page E-28).
- (AMP) mode **only** controls Arcam equipment.

BD mode	Locked
SAT mode	Unlocked
AV mode	Unlocked
TUN mode	Locked
AUX mode	Locked
VCR mode	Unlocked
CD mode	Locked

Here is a specific example of how to program the (AV) key to control an Addison television. The principles for controlling other devices are exactly the same.

1. Make sure your device is switched on (not just on standby).
2. Find the correct Device Code table (e.g. TV) for the type of device you want to control from the CR104.
3. Find the row containing the codes for the manufacturer of your device. The most popular code is listed first.
4. Press the appropriate Device Mode key (e.g. (AV)) on the CR104.
5. Press and hold (SHIFT) until the red Power LED blinks twice: ✲ ✲ (It actually blinks once when you press the key, then twice after about three seconds).
6. Enter the first four-digit device code using the number keys. The power key blinks twice: ✲ ✲.
7. Aim the CR104 at the device and press (⏻). If the device switches off, the setup is complete.
8. Turn your device back on and test all the CR104's functions to ensure they are working properly.

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9. **Important!** Write your device code down on the right hand side of the page so you can remember it if you ever reset the CR104.

What if I still can't control my device?

- If your device doesn't respond, repeat the above steps until one of the device codes listed for your brand works.
- If none of the codes listed for your brand operates your device, or if your brand is not listed at all, try the Library Search Method described in the next section.

Notes:

- Some codes are quite similar. If your device does not respond or is not functioning properly with one of the codes, try another code listed under your brand.
- If your device's original remote control does not have a ⏻ (POWER) key, press ▶ instead of ⏻ when setting up your device.
- Remember to press the corresponding device key before operating your device.
- Many TVs do not switch on pressing ⏻. Please try pressing a number key ('channel select') to switch your TV back on.
- To search for the code for another device follow the instructions above, but press the appropriate device key instead of AV during step 2.

Method 2 (Library search)

This section describes another way to program the CR104 to control third-party equipment.

Library Search allows you to scan through all the codes contained in the CR104's memory. It can take a lot longer than the previous method, so only use this method if:

- Your device does not respond to the CR104 after you have tried all the codes listed for your brand.
- Your brand is not listed at all in the Device Code tables.

Example: To search for a TV code

1. Switch your TV on (not standby) and aim the CR104 at it.
2. Press AV on your CR104.
3. Press and hold SHIFT until the power LED blinks twice.
4. Press 9 9 1. The power LED key blinks twice: ✨ ✨.
5. Press ⏻.
6. Aim the CR104 at your Television and press ⏭ repeatedly until your Television turns off.

Every time you press ⏭ the CR104 sends out a POWER signal from the next code contained in its memory. In the worst case, you may have to press this key up to 150 times, so patience is required! If you skip past a code, step back by pressing ⏮. Remember to keep pointing the CR104 at your Television while pressing this key.

7. As soon as your television turns off, press SHIFT to store the code.

Notes:

- Many TVs do not switch on by pressing ⏻. Try pressing a number key ('channel select') to switch your TV back on.
- If you cannot control your Television properly, please continue the Search Method: you may be using the wrong code.
- To search for the code for another device follow the instructions above, but press the appropriate Device Mode key instead of AV during step 2.
- If your device's original remote control does not have a ⏻ (**STANDBY**) key, press ▶ instead during step 5.

Code blink-back

Once you have set up your CR104, you can blink back your device set-up codes for future reference.

Example: To blink back your Television code

1. Press the appropriate Device Mode key (e.g. AV) once.
2. Press and hold SHIFT until the red Power LED blinks twice ✨ ✨ (It actually blinks once when you press the key, then twice after about three seconds).
3. Press 9 9 0. The ⏻ key blinks twice.
4. For the first digit of your four-digit code, press **1** and count all the red blinks. If there are no blinks, the digit is '0'.
5. For the second, third and fourth digits, repeat the previous step, pressing 2, 3, or 4 in order.

Now you have the four-digit code.

Make a note of the codes

Write down the codes for your devices in the boxes below for future reference.

Device	Code
1	
2	
3	
4	
5	
6	
7	
8	

English

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advanced operation

Disc information

Press STATUS to display the 'Information bar' at the top of your TV screen. An example is given above, but the information shown depends on the disc type. It usually includes the disc type, the current track, the total number of tracks and the elapsed track time.

For Audio CDs, press STATUS again to turn this display off.

Search

The SRCH button allows you to search for a specific title, chapter or track on the medium. Press SRCH to display the search box. Press SRCH repeatedly to select the search type:

Video Discs	Audio Discs	Media Files
Go to Title	Go to Track	Go to File No.
Go to Chapter		Go to Time
Go to Time		

Use the remote control number buttons to enter the search data. Press OK to start playback from the selected location.

Menus

Many BD Video and DVD Video discs contain a disc menu, top menu or popup menu which guides you through the available functions in the disc.

The contents of menus and corresponding menu operations depend on the disc.

- **Disc Menu:** Press TITLE to display the disc menu ('Top Menu') on the TV.
- **Popup Menu:** Press MENU to display the 'Popup' menu on the TV.

Use the remote control cursor keys to navigate the menus. Highlight an item and press OK to select it, otherwise, press the relevant menu key to exit the menu.

Soundtrack selection

Some discs contain multiple audio streams, such as a standard Dolby Digital 5.1 soundtrack and a high definition Dolby TrueHD 7.1 surround soundtrack. The audio stream can be changed during playback. The secondary audio (e.g. director's commentary) of Blu-Ray Discs (if present) can also be changed if alternatives are available.

Note: Audio language is changed using the Language menu: see page E-21.

Press AUDIO to display the current audio stream information.

Highlight either the Primary (Audio) or the Secondary (PIP) audio stream selection using the ▲/▼ buttons.

Press ▶ to show alternate audio streams. Press ▲/▼ to highlight the desired audio stream then press OK to select it.

Subtitles

Some discs contain multiple subtitles. The subtitles can be changed during playback. Subtitles for the secondary video (e.g. director's commentary) of Blu-Ray Discs (if present) can also be changed (if alternatives are available).

Note: Subtitle language is changed using the Language menu: see page E-21.

Press SUBT to display the current subtitle information:

Highlight either the Primary (Subtitle) or the Secondary (PIP Subtitle) subtitle selection using the ▲/▼ buttons.

Press ▶ to show alternate subtitles. Press ▲/▼ to highlight the desired subtitle then press OK to select it.

Bonusview and BD-Live

Bonusview and BD-Live are features of the Blu-ray Disc format.

Bonusview provides Picture in Picture and Virtual Package functions for compatible discs. BD-Live discs additionally provide a variety of features via the Internet.

Virtual Package/BD-LIVE data must be saved to a USB memory device connected to the BDP300. To enjoy these functions, connect a USB memory device (minimum 1 GB capacity; 2 GB or more is recommended) supporting FAT 32 and USB 2.0 High Speed (480 Mbit/s) to the USB connector. (For details, refer to 'USB Connection' on page E-9.)

- If there is insufficient storage space, the data is not copied/downloaded. Delete unneeded contents or use a new USB memory device.
- If a USB memory device containing other contents (previously recorded) is used, the video and audio may not play back properly.
- If the USB memory device is disconnected from this unit during playback of Virtual Package/ BD-LIVE contents, playback of the disc will stop.
- Some time may be required for the contents to load (read/write).

NOTE

- It may not be possible to use the BD-LIVE functions if there is insufficient space on the USB memory device. In this case, refer to 'Erase Blu-ray Storage?' on page E-21 for erasing the Virtual Package contents and the BD-LIVE contents in the USB memory device.
- Operation of all USB memory devices is not guaranteed.
- Plug the USB memory device directly into the USB connector – do not use an extension cable or multiple connector socket.

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Picture in Picture (secondary video)

Some Blu-ray discs include secondary video screens that can be played back as a small video overlaid in the corner of the screen. Press the MODE button on the remote control to display the PiP menu:

Press ▶ to enter the PiP menu. Select a secondary video stream using the remote control cursor keys ▲/▼. Press OK to view the secondary video in PiP mode.

NOTE

- To listen to secondary audio or to display secondary subtitles, refer to 'Soundtrack selection' or 'Subtitles' on page E-16.
- Secondary video may not be present for every scene of a disc. The feature is disc-dependant, please consult the disc manual for further details.

Virtual Package

Blu-ray discs supporting Virtual Package allow for extra content to be automatically transferred from the disc or from the Internet to USB storage for interactive viewing. Features available include secondary video and audio, subtitles and movie trailers.

NOTE

- Playback methods are disc-dependant — refer to the disc manual.
- Playback operations may require use of the colour-coded keys on the remote control. To access the colour key functions on the CR104 remote control, press SHIFT first.

BD-Live

The BDP300 is compatible with BD-Live, allowing for a variety of functions when used with BD-Live compatible discs. BD-Live allows content such as the latest movie trailers and BD-J interactive games to be downloaded from the Internet to USB storage.

Available BD-Live functions are entirely dependant on the Blu-ray disc being played. Consult the disc manual for operational information.

NOTE

- The BDP300 must have an active Internet connection to use BD-Live functions. Refer to 'Network connection' on page E-9 and 'Network' on page E-21
- BD-Live Internet access can be disabled using the ***BD-Live Internet access*** setting in the **System** menu: see 'Network' on page E-21
- Playback operations may require use of the colour-coded keys on the remote control. To access the colour key functions on the CR104 remote control, press SHIFT first.

Playing media files

The **MYMEDIA** icon is shown on screen when the BDP300 is first switched on. To play video, image files (e.g. photographic slideshows) or audio files, highlight the **MYMEDIA** icon and press OK.

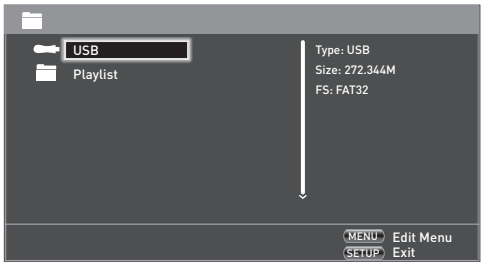
Video and audio files can be played from USB media or CD-R/RW discs. The following formats are supported:

- **Video:** AVI, MPEG4
- **Image:** JPG
- **Audio:** WMA, MP3

To play media files, insert the USB device or data disc into the player. The MY MEDIA menu is displayed with music, video and/or picture file symbols:

To play all available files without making any selection, press ◀ to go to the Play menu, described below.

To select particular files, use the ▲/▼ cursor keys on the remote control to highlight the media device to navigate the MY MEDIA menu. Press OK to select the media device and display the file and folder contents.



NOTE

When there are no playable files or folders within the selected media or folder, 'Empty' is displayed.

You can play a single file or playlist (containing up to 100 selected files). Use the ▲/▼ cursor keys on the remote control to highlight a file or playlist and press OK to select it.

The Edit menu

Press **POPUP MENU** to select the Edit menu, from which the following operations are available:

- **Add to Playlist**: Add the folder/file to the Playlist.
- **Select All**: Select all folders/files in the current directory (up to a maximum of 100 files); all selected files/folders are marked with a check mark.
- **Clear All**: Deselect all selected files/folders.
- **Cancel**: Cancel and exit the Edit menu.

Select 'Play (file)' to play a single file, or select 'Add to Playlist' to add the file to the playlist. When the desired files have been added to the playlist, press ◀ on the remote control to go back to the Play menu.

Play a music file

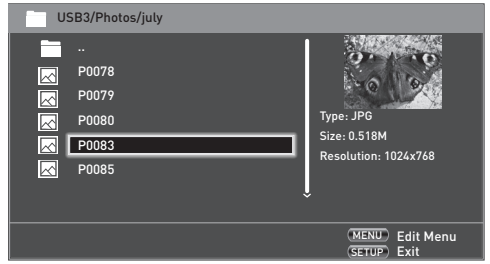
Use the ▲/▼ cursor keys to highlight a WMA or MP3 file and press OK or ▶ to start playback.

Play a video file

Use the ▲/▼ cursor keys to highlight an AVI or MPEG4 file and press OK or ▶ to start playback. Press DISP to view relevant video file playback information.

Play a picture file

Use the ▲/▼ cursor keys to highlight a JPEG (photo) file and press OK to confirm selection. Its preview and file information is shown on the right of the panel.



If you have selected a playlist (created using the Edit menu), you can press ▶ to start viewing the pictures as a slideshow.

You can use the remote cursor keys (up, down, right, left) to rotate the picture. The RPT button cycles through the repeat options (repeat one, repeat all, repeat off). The ◀◀ and ▶▶ keys can be used to change the picture playback speed: fast (1 second), medium (2 seconds) and slow (3 seconds). Press DISP to view relevant picture file playback information.

English

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Advanced playback controls

The following advanced controls are available during disc or file playback (depending on media type):

Slow playback

Press SHIFT followed by ⏸ to activate slow motion playback. Press this button combination again to change the playback speed. Speeds of 1/2, 1/4 and 1/8 are available.

Rapid Playback

Press ⏪ or ⏩ during playback to activate rapid reverse or forward playback. Further button presses change the playback speed. Speeds of 2x, 4x, 8x, 16x or 32x normal speed are available. Press ▶ to resume normal playback.

Displaying File Information

Press the STATUS button to display the file information panel. The information displayed depends on the type of file playing, but may include the file type, elapsed and total playing time and a progress bar, and the playback mode (e.g. repeat, random play).

Press STATUS again to hide the file information panel. Note that the file information panel is always shown when playing music files.

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settings menus

The Settings menus allow you to configure all aspects of your BDP300. The next few pages will go through the menu items and explain their function. The Settings menus may look daunting if you are new to setting up home cinema, but the majority of them need only be configured once when you first install the system.

The only way to view the Settings menus is on your display device (TV or projector) using the on-screen display (OSD) capability of the BDP300. To view the OSD for the initial setting up, connect any of the video outputs to your display device (or AV receiver connected to your display).

Entering the settings menu

The **SETTINGS** icon is shown on screen when the BDP300 is first switched on.

If the main menu is not currently displayed, press SETUP on the remote control to display it. Note that during the playback of music, video or JPEG files, further button presses may be required to exit the folder structure.

With the **SETTINGS** icon highlighted, press OK to enter the Settings menu.

Unstable OSD menu or picture display?

The default BDP300 output video resolution when first powered up out of the box has been chosen according to the national standard in the country of purchase.

If the output resolution and frame rate is at a setting your display device does not support, the picture may become unstable or may not display at all. If this happens, connect the BDP300 directly to your display using the composite video connection in order to see the menus. Once the correct video settings have been entered, a higher-quality connection can be used.

No Disc
ARCAM
bringing music and movies to life
Blu-ray Disc
SETTINGS
MY MEDIA
This player is not connected to the internet. To connect go to the SETTINGS menu and select NETWORK to configure the connection.

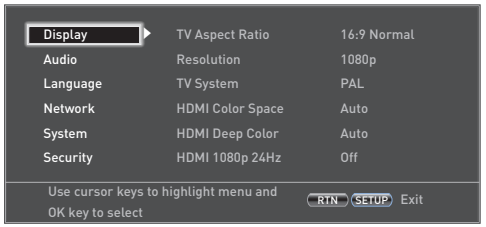
Navigating the menus

The BDP300 menus can be navigated by using the cursor (up, down, left, right) keys on the remote control.

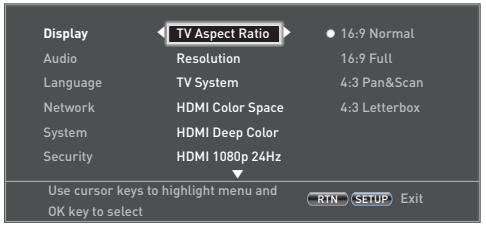
1. To display the main menu, press SETUP.
2. Use the ▲ and ▼ keys to navigate up and down the main headings in the left-hand panel.
3. With the main section you require highlighted, use the ▶ key to enter the middle column.
4. Use the ▲ and ▼ keys to navigate up and down the options in the middle column. Some options may be greyed out because they are not currently selectable (e.g. network IP address when DHCP is used).
5. Pressing ▶ selects a setting: use the ▲ and ▼ keys to change the setting.
6. Press OK to confirm the setting. Go back to step 4 to adjust any other settings in the current section.
7. Press ◀ to return to the previous screen if you want to select another section.

Display

With the **SETTINGS** icon highlighted on your display, press OK to show the 'Display' options.



Press ▶ to move to the options in the second column.



TV Aspect Ratio – Set the aspect ratio (shape) of your display. Press ▶ to move to the options in the third column.

- **16:9 Normal:** Use with widescreen TVs. 4:3 material is zoomed to fit the wide screen.
- **16:9 Full:** Use with widescreen TVs. 4:3 material is displayed in its original aspect ratio, with vertical black bars at the sides.
- **4:3 Pan and Scan:** Use with 4:3 non-widescreen TVs. 16:9 widescreen content is displayed with the left- and right-hand sides of the image cropped to fit the screen (no black bars). The aspect ratio is maintained (the image is not stretched).
- **4:3 Letterbox:** Use with 4:3 non-widescreen TVs. 16:9 widescreen content is displayed with black bars at the top and bottom.

English

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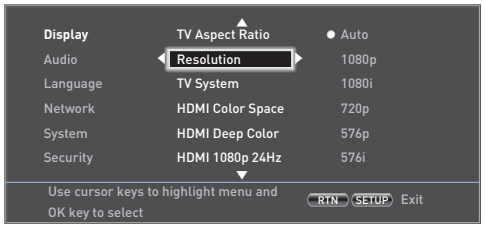
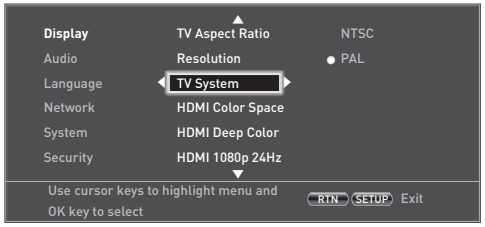


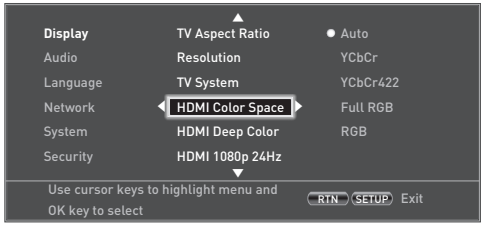
Resolution – Set the video resolution of the **HDMI** and **COMPONENT VIDEO** outputs.

- **Auto:** Sets the TV's preferred resolution.
- **1080p:** Full HD progressive video.
- **1080i:** interlaced HD video.
- **720p:** progressive HD video.
- **480p/576p:** 480 lines (NTSC) or 576 lines (PAL) progressive video
- **480i/576i:** 480 lines (NTSC) or 576 lines (PAL) Standard Definition interlaced video.

> ***NOTE***
> The HDMI Auto setting may not set the best possible resolution. If you have a 1080p Full HD display, set the resolution to 1080p.



TV System – Set the video signal format. If the colour or picture quality of analogue video appears incorrect, change this setting. It should not need to be adjusted in normal use. You can select NTSC (the USA and Canada video standard), or PAL (the Europe, Australia and China video standard).



HDMI Color Space – 'Color Space' refers to the number of individual colors that can be displayed on the screen. If you know the color space capability for the connected TV, you can match it by selecting one of these options. We recommend you select 'Auto'.

HDMI Deep Color – sets the level of Deep Color processing applied to the HDMI video output. You can select 'Auto' or 'Off'. If this option is set to Auto and your TV supports Deep Color, the screen displays colors at 30-, 36- or 48-bit accuracy (compared to the 24-bit accuracy of standard color). Check the documentation that came with your TV to see if your TV supports Deep Color. All system HDMI interconnect cables must be Deep Color compatible in order to use 30/36-bit Deep Color signals.

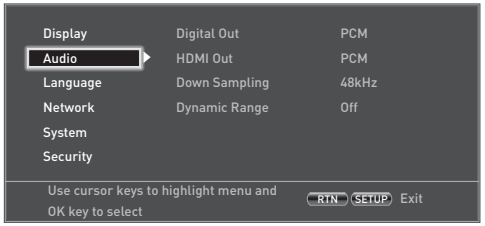
> ***NOTE***
> If you experience a flickering or abnormal picture after changing the Deep Color setting, connect the unit using a Composite video cable and change the setting to a value supported by the display.

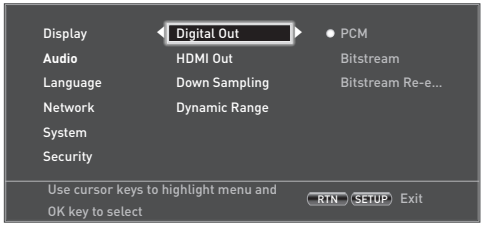
HDMI 1080p 24Hz – You can select 'Auto' or 'Off'. Movies are recorded on film at a rate of 24 pictures (frames) per second. Many of the movies on Blu-ray Discs are placed on the discs at this frame rate. If your TV supports 24 frames per second, but you would prefer to view the video at a higher frame rate, you should turn off HDMI 1080p 24Hz.

> ***NOTE***
> - 1080/24p video signals can only be output using the **HDMI** connection.
> - The connected equipment (AV receiver, TV/projector) must be 1080/24p compatible.
> - The output resolution must be set to **1080p** or **HDMI Auto**.

HDMI 3D – To turn the 3D feature (if available) on or off. You can select 'Auto' or 'Off'.

Audio





Digital Out – Sets the audio format output from the **OPTICAL** or **COAXIAL DIGITAL OUT** connections.

You can select:

- **PCM** – Outputs the signal as processed audio ready for any receiver. Use this when your receiver cannot decode the movie soundtrack on the disc.
- **Bitstream** – Outputs the movie soundtrack without any processing. This option requires a receiver that supports the movie soundtrack format.
- **Bitstream Re-encode** – Combines all audio signals and outputs as DTS, Dolby, or PCM depending on the audio stream on the disc.

> ***NOTE***
> The signal at the **HDMI** output is also determined by the formats supported by the connected equipment.

HDMI Out – Sets the audio format output from the **HDMI** connection.

You can select:

- **PCM** – (as above).
- **Bitstream** – (as above).
- **Bitstream Re-encode** –Automatically selects the HDMI digital signal type according to the audio stream on the disc.

Down Sampling – Set the maximum sample rate of audio output from the **OPTICAL** or **COAXIAL DIGITAL OUT.**

- **48kHz** – (most compatible) Select this option if the TV speakers, amplifier, or home theater is not capable of handling signals over 48kHz sampling rate. If you do not have an audio receiver or TV connected to your player through one of the digital audio jacks (optical or coaxial), select 48kHz. See the documentation that came with the receiver or TV.
- **96kHz** – Select this option if the TV speakers, amplifier, or home theater is capable of handling a digital sampling rate of 96kHz
- **192kHz** – (best quality) Select this option if the TV speakers, amplifier, or home theater is capable of handling a digital sampling rate of 192kHz.

> ***NOTE***
> If the connected equipment (e.g. AV receiver) does not support 96kHz or 192kHz audio, silence or loud noise may result from this setting. If this happens, set ***Down Sampling*** to 48kHz.

Dynamic Range – Selects the Dynamic Range Control mode to 'Off' or 'On'.

Dynamic Range is the range between the loudest sounds and the quietest ones. If set to 'On' you can listen to a movie at a lower volume without losing sound clarity.

- **Off** – No dynamic range compression
- **On** – Dynamic range compression.

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Language

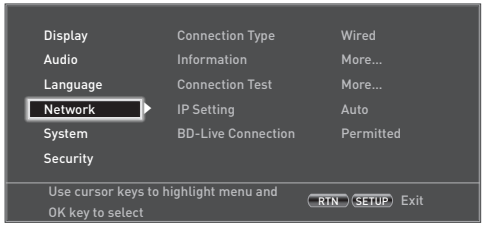
OSD – Select one language to be used for the On Screen Display (OSD).

Disc Menu – Set the language used for the Disc Menu and Pop-up Menu. The available languages depend on the disc. 'Auto' sets the priority language of the disc.

Disc Audio – Set the language for the soundtrack. The available languages depend on the disc. 'Auto' sets the priority language of the disc.

Disc Subtitle – Set the language used for the subtitles. The available languages depend on the disc. 'Off' prevents the display of subtitles.

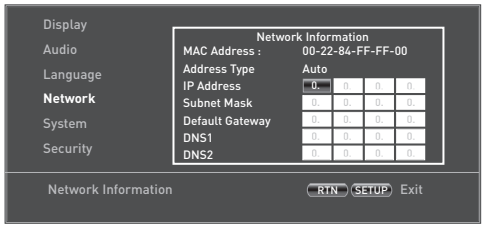
Network



An active, configured Internet connection is required if you wish to use BD-Live websites and downloaded content. See page E-9 for physical connections.

Connection Type – 'Wired'. Connect a network cable to the Ethernet jack and into a wired router. The BDP300 does not support wireless connections.

Information – Select and press (OK) to view or set the network connection parameters:



MAC Address – Information only

Address Type – Set whether the network settings are automatic or set manually.

- **Auto:** Allows the connected router or modem to configure the network settings automatically, using the network's DHCP server. This setting should be used for the majority of home networks.
- **Manual:** Enter settings manually, for expert users.

The following settings are only available when ***IP Setting*** is set to Manual:

IP Address – Use the cursors to navigate between segments and use the (0) to (9) keys to enter the IP address assigned to your player by your network administrator. Press (OK) to save the setting.

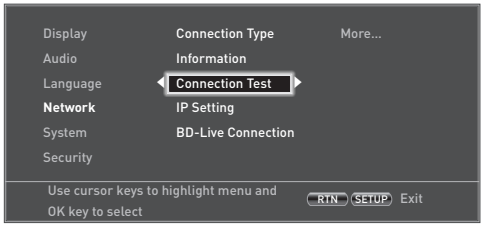
Subnet Mask – Use the cursors to navigate between segments and use the (0) to (9) keys to enter the subnet mask of your network. Press (OK) to save the setting.

Default Gateway – Use the cursors to navigate between segments and use the (0) to (9) keys to enter the Internet gateway address. Press (OK) to save the setting.

DNS1 – Use the cursors to navigate between segments and use the (0) to (9) keys to enter the IP address of your Primary DNS server. Press (OK) to save the setting.

DNS2 – Use the cursors to navigate between segments and use the (0) to (9) keys to enter the IP address of your Secondary DNS server. Press (OK) to save the setting..

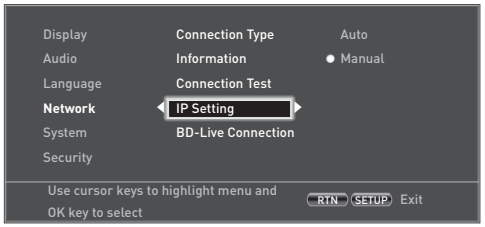
Connection Test – When your player tests your Internet connection, it sends (pings) an IP address.



Press (OK) to run a network test. This will also configure the network settings automatically if they have not been configured and if automatic configuration (DHCP) is supported by the network.

If this test fails, check the connections to your home network. Make sure your network cable is securely attached to your router and the BDP300. Check that your router is connected to your cable or DSL modem correctly. There may be an issue with your router or Internet Service Provider (ISP): contact your ISP for more help.

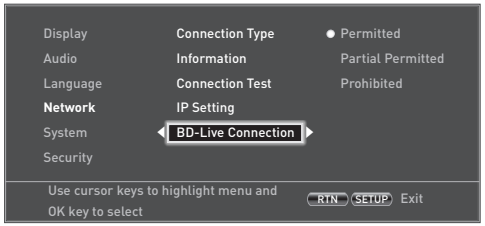
IP Setting – You can set your player to automatically obtain an IP address when it connect to your ISP. Some providers require that you enter a fixed IP address that does not change: this must be entered using the 'Manual' setting.



Highlight 'Auto' or 'Manual', then press (OK).

If you selected Manual, the Network Information screen opens with the IP Address row highlighted. Press a number button to enter the first digit of the IP address, then press (▶) to move to the next digit. Continue using the number buttons and the (▲) or (▼) keys to enter the rest of the IP address. When you have finished, press (OK). If you need to remove a number you entered, press (▼).

BD-Live Connection – To set the BD-Live Internet access level.



The access levels are:

- **Permitted:** All BD-Live discs are allowed access to BD-Live websites.
- **Partial Permitted**: Allows Internet access to BD-Live content with valid certificates only.
- **Prohibited**: Prohibit all BD-Live discs from accessing BD-Live websites.

NOTE

- The available on-line functions are disc-dependent.
- Refer to the BD-Live disc instructions for information about accessing on-line content.
- The BDP300 must be connected to the Internet and set up correctly to allow access to on-line content. See page E-9 for network connections and page E-21 for network settings.

English

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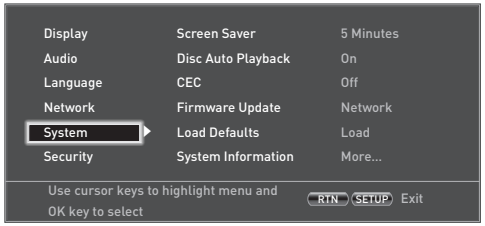
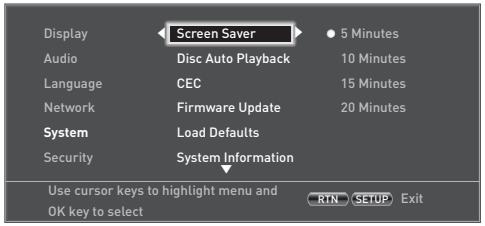
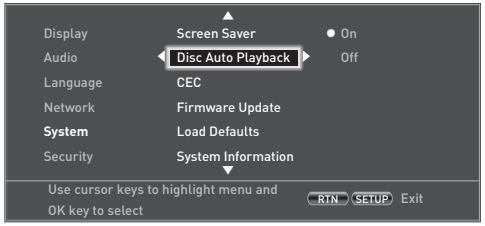
System



Screen Saver –sets the duration of a static image display before the screen saver is shown. The options are: **5/10/15/20 Minutes**. Pressing any button on the unit or remote deactivates the screen saver.

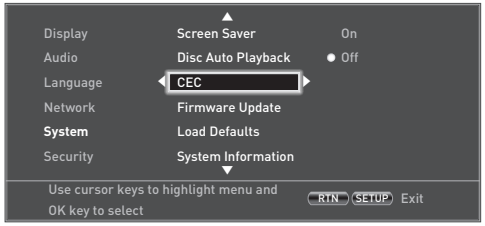


Disc Auto Playback – controls whether an optical disc (e.g. Blu-ray Disc, DVD, CD) will play automatically after it has loaded.



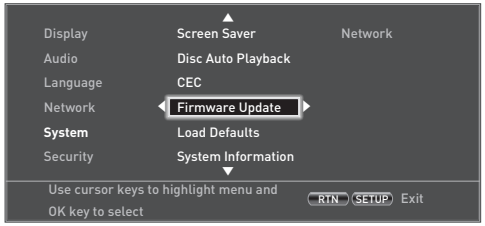
- **On:** Optical discs will play automatically.
- **Off:** **PLAY** must be pressed to play a disc.

CEC – The Consumer Electronics Control (CEC) option is used to allow all supported devices connected by HDMI to work together as a single system.



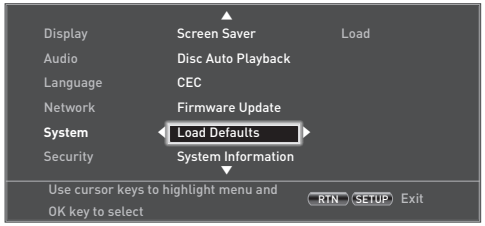
CEC may be turned 'On' or 'Off', to link or unlink the remotes.

Firmware Update – You can check for an upgrade to your player's firmware by selecting this menu item and pressing OK to highlight 'Network', then press OK again.



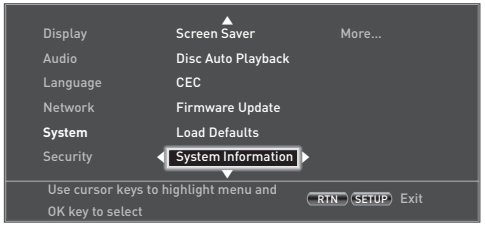
A message appears if no new firmware is available, otherwise follow the on-screen instructions. A message tells you when the upgrade is complete. Press OK.

Load Defaults – Press OK with this item highlighted to reset all settings to factory defaults (including parental controls).



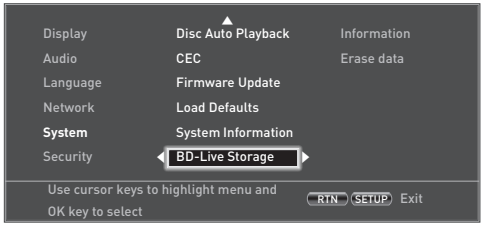
You are asked to confirm that you want to load the default settings. For 'No' press OK; for 'Yes' press ◀ then OK.

System Information – Highlight this option and press OK twice to display system information.



The System Information panel shows information about your player, such as the serial number and firmware version.

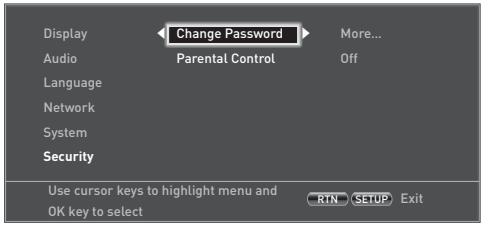
BD-Live Storage – This last System option allows you to review or delete BD-Live data stored on an external USB drive.



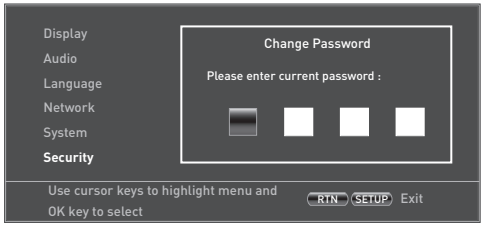
The options are:

- **Information**: Highlight and press OK to show file information on the BD-Live data.
- **Erase data**: Highlight and follow the on-screen instruction to erase BD-Live storage data.

Security/Parental Control



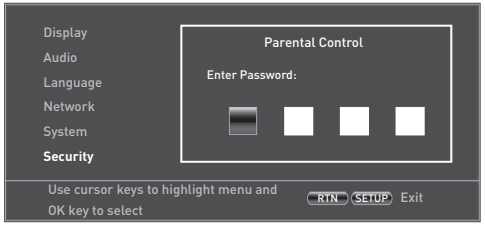
Change Password – Sets or changes the 4-digit password. Press the number buttons for the current password (the default PIN is **0000**), then press OK. Enter the new password again, then press OK.



Parental Control – Parental control settings can be used to prevent the viewing of material inappropriate for children. According to the level set, a disc may be stopped or have certain scenes cut or substituted with alternative scenes, depending on the disc.

To set the parental control level:

1. Select 'Settings' ▶ 'Parental Control' ▶
2. If Parental Control is set to 'On', enter your PIN using the remote control number buttons. The default PIN is **0000**.



3. Once the Parental Control menu is accessed, press the ▲/▼ cursor buttons on the remote to select from the following items. Press ▶ to select an item.

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Parental Control – Set whether Parental Control is 'On' or 'Off'.

- **Off:** All discs are played back.
- **On:** Disc playback is restricted according to the Parental Level set in the following menu item.

Parental Level – Set the degree of disc restriction. The lower the value, the stricter the limitation.

1	**Kid Safe**: Suitable for children.
2	**G**: All children and general audience.
3	**PG**: Parental guidance suggested.
4	**PG-13**: Unsuitable for children under 13.
5	**PG-R**: Parental guidance recommended.
6	**R**: Restricted; cinemas require children under the age of 17 to have an accompanying adult parent or guardian.
7	**NC-17**: Cinemas do not admit anyone younger than 17 years old.
8	**Adult**: Adult rating; discs of any rating (Adult/General/Children) can be played back.

NOTE

- If the parental control level is set and you try to play a disc with a level higher than the current parental level, a password panel opens.
- If an attempt to change the parental control or parental level is made, a password panel opens.

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trouble-shooting

If a fault occurs, check this troubleshooting table before taking your unit for repair.

If the fault persists, attempt to solve it by switching the unit off and on again.

If this fails to resolve the situation, consult your dealer. Under no circumstances should you repair the unit yourself as this will invalidate the guarantee!

Problem	Possible cause	Remedy
No power	■ The AC input cord is disconnected. ■ Poor connection at AC wall outlet or the outlet is inactive.	■ Connect cord securely. ■ Check the outlet using a lamp or another appliance.
No playback	■ The disc is loaded upside down. ■ The disc is not playable. ■ The disc is dirty. ■ The recorded disc is not correctly finalized. ■ The parental level is not set correctly. ■ The symbol about invalid operation is displayed.	■ Reload the disc with the printed side up. ■ Use a playable disc. ■ Clean the disc. ■ Load a disc that is correctly finalized. ■ Set the parental level setting correctly: see page E-22. ■ Adjust the setting correctly.
Malfunction	■ The disc is scratched, dirty, poorly recorded or unplayable.	■ Press the POWER switch to switch the power off, press the POWER switch again and then unload the disc.
No picture	■ The video cords are disconnected. ■ The incorrect selection of input source on the TV. ■ The disc is not playable.	■ Connect the cords correctly. ■ Select the input source correctly. ■ Use a playable disc.
Noisy or distorted picture	■ The unit is connected to a recording device directly and the copyguard function is activated. ■ The disc is dirty. ■ It is in rapid advance or reverse playback, or in frame advance playback.	■ Connect the unit so that the picture signal is ■ transferred directly to the TV. ■ Clean the disc. ■ Sometimes a small amount of picture distortion may ■ appear. This is not a malfunction.
Abnormal picture or no picture	■ The resolution is not set correctly for video signals to be output from the COMPONENT and HDMI OUT sockets. ■ The TV does not support HDCP. ■ The TV type of this unit is different from that of your TV or the disc.	■ Set the resolution correctly: see page E-19. ■ This unit will not transfer the video signals via the HDMI connector to TV that does not support HDCP. This is not a malfunction. ■ Set the TV type correctly: see page E-19.
Slight pause of picture	■ The layer transition occurs during playback of DVD Videos, etc. in dual-layer format.	■ Sometimes a slight pause may occur. This is not a malfunction.
No sound	■ The audio cords are disconnected. ■ The speakers are disconnected to the amplifier. ■ The incorrect selection of input source on the amplifier.	■ Connect the cords correctly. ■ Connect the speakers correctly. ■ Select the input source correctly.
Noisy or distorted sound	■ The disc is dirty. ■ Poor connections.	■ Clean the disc. ■ Check the connections and connect all cords securely.
BD-LIVE contents cannot be loaded	■ Poor connections between this unit and broadband router and/or modem. ■ The USB memory device is disconnected. ■ The BD-Live Internet Access is set to 'Prohibit Access'. ■ The BD disc does not support BD-LIVE. ■ The network settings are not set correctly.	■ Check the connections and connect all cords securely. ■ Connect the USB memory device to this unit. ■ Set it to 'Always Allow Access': see page E-21. ■ Load a disc that supports BD-LIVE. ■ Set the network settings correctly: see page E-21.
Remote control unit does not operate.	■ Batteries are not loaded or exhausted. ■ The remote sensor is obstructed.	■ Replace the batteries. ■ Remove the obstacle.

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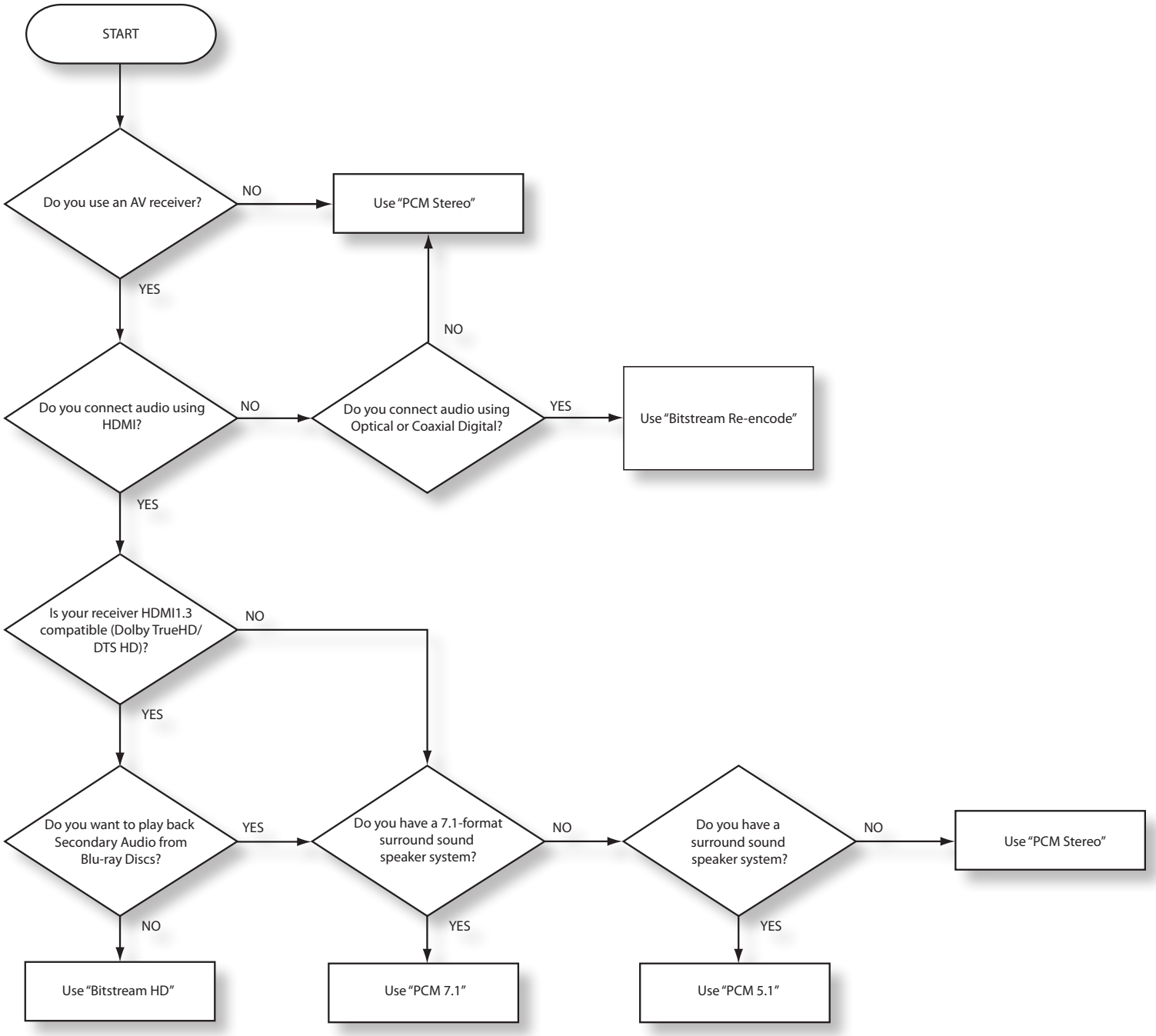
audio & video output formats

Audio output format

The audio output format available from the digital audio outputs depends on the soundtrack format being played, the audio output in use and the ***Digital Output*** setting in the **Audio** settings menu: see 'Audio' on page E-20.

Use the flowchart on this page to guide you to the correct setting for your home cinema setup.



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customising the CR104

Code learning

The CR104 comes with a complete library of preprogrammed codes. After you have set up the CR104 for your device, you may find that there are one or more functions on your original remote which do not have a place on the CR104 keypad. For convenience, the CR104 offers a Code Learning feature that allows you to copy up to 16 functions from an original remote control onto the CR104 keypad.

Before you start, make sure that:

- The original remote control is working correctly.
- The remotes are not pointing at your device.
- The remotes have new batteries.
- The remotes are not in direct sunlight or under strong fluorescent lights.

> ***NOTE***
> Learned functions are mode-dependent: You could theoretically assign up to eight different functions to a single key (the CR104 can handle a total of 16 learned functions).

Example: To copy the 'text hold' function from a TV remote onto the ⏭ key of your CR104

1. Place both remotes on a flat surface, 2 to 5cm apart, with the IR ports facing each other.
2. On the CR104, press and hold SHIFT until the power LED blinks twice: ✳ ✳.
3. Press 9 7 5. The power LED blinks twice: ✳ ✳.
4. On the CR104, press the device key that matches the 'source' device (e.g. if you're learning a TV function, press AV).
5. On the CR104, press the key to which you want to assign the learned function (e.g. ⏭). The device key blinks rapidly.
6. On the original remote, press and hold the function key that you want to learn (e.g. **TEXT HOLD**) until the CR104 device key blinks twice: ✳ ✳.
7. If you want to learn other functions from the same source device, simply repeat steps 5 and 6 pressing the next key you want to learn.
8. To exit Code Learning mode, press and hold SHIFT until the device key blinks twice: ✳ ✳.
9. To use the learned function on the CR104, press the Device Mode key, followed by the function key.

   In this example, you'd press AV followed by ⏭

Shifted Learning

You can assign a learned function to a CR104 key without sacrificing its original function.

You can assign Shifted Learning functions to any key **except** for: Device Mode keys (e.g. AV), SHIFT, or number keys (0 to 9).

1. To assign a Shifted Learning function, simply follow Code Learning steps in the previous section. During step 5, press SHIFT once before you press the key to which you want to assign the learned function.
2. To access the shifted function, press SHIFT and then the target key.

Important notes

- Once you start a Code Learning session, you have approximately 10 seconds to conduct each step. Any longer, and a timeout means that you'll have to start the process again.
- The Learning feature is mode-specific – you can copy one feature ***per mode*** onto a key.
- The CR104 can learn approximately 16 functions in total.
- To replace a learned function, simply assign a new one to the same key.
- Learned functions ***are*** retained when you change batteries.
- If Code Learning fails, try altering the distance between the two remotes; make sure that the light in the area is not too bright.

To delete a learned function

1. Press and hold SHIFT until the power LED blinks twice: ✳ ✳.
2. Press 9 7 6. The power LED blinks twice: ✳ ✳.
3. Press a Device Mode key once. For example, if you want to delete one of your learned TV functions, press AV.
4. Press twice on the key you want to deassign. The handset blinks twice: ✳ ✳ to confirm.

   The original function of the CR104 is restored.

To delete a Shifted Learned function:

To delete a Shifted Learned function, press SHIFT before you press the key to be deassigned (during step 4 above).

To delete ALL learned functions within a given Device Mode

1. Press and hold SHIFT until the power LED blinks twice: ✳ ✳.
2. Press 9 7 6 – the power LED blinks twice: ✳ ✳.
3. Press the appropriate Device Mode key twice.

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Creating Macros

You can program your CR104 to issue a sequence of commands when you press a single key. Any sequence of commands you regularly use can be reduced to a single key press for your convenience.

For example, you might want to turn off your TV, VCR and Satellite at the same time.

- A key programmed with a Macro is available in all modes; it will replace that key's different functions for all modes.
- A Macro can consist of up to eight key presses.

Example: To assign a Macro to the SRCH key

1. Press and hold SHIFT until the power LED blinks twice: ✳✳.
2. Press 9 9 5.
3. Press SRCH (the Macro will be assigned to this key).
4. Press a, ⏻, VCR, ⏻, SAT, ⏻. (These are the Macro steps you wish to record.)
5. To store the Macro, press and hold SHIFT until the power LED blinks twice: ✳✳.

Now, whenever you press SRCH, the CR104 will toggle the power to your TV, VCR and Satellite.

- The important word here is 'toggle'. For example, if the TV and Satellite devices are currently on, but the VCR is off, pressing SRCH will switch off the TV and Satellite and switch on the VCR (rather than switching all three devices on or off).
- When using Macros, remember that you may need to change mode or use SHIFT, and that each key press (including changing modes and pressing SHIFT) counts as one of the Macro steps. You cannot use a Macro key within another Macro.
- If the amount of memory storage for a particular Macro is exceeded, the power LED comes on for five seconds. You can, however, save the macro steps up to that point by pressing SHIFT, or you can cancel the Macro recording by pressing any other key.
- The delay between key presses is recorded as part of the Macro. A delay of up to 30 seconds is permitted.

Example: To deassign the Macro associated with the SRCH key

1. Press and hold SHIFT until the power LED blinks twice: ✳✳.
2. Press 9 9 5.
3. Press SRCH.
4. Press and hold SHIFT until the power LED blinks twice: ✳✳.

Volume punch-through

Volume punch-through means that, no matter which Device Mode is selected, the CR104 controls the AVR500, AVR600 or AV888 volume. You don't need to press AMP on your CR104; this feature is switched on by default.

There are times, however, when you might want to control a device's volume directly when in a specific Device Mode.

Example: To cancel volume punch-through for a TV (AV mode)

1. Press AV once.
2. Press and hold SHIFT until the power LED blinks twice: ✳✳.
3. Press 9 9 3.
4. Press −. The power LED blinks four times.

Now, while in TV (AV) mode, you will be able to control the volume or mute functions of your TV directly.

To completely cancel all volume punch-through settings

1. Press and hold SHIFT until the power LED blinks twice: ✳✳.
2. Press 9 9 3.
3. Press +. The power LED blinks four times ✳✳✳✳.

Now, whichever mode you're in, you will have direct access to that device's volume or mute functions, assuming they are available. You would need to switch to **AMP** mode to alter the AVR500/AVR600/AV888 volume.

Example: To restore default volume punch-through settings to all Device Modes

1. Press and hold SHIFT until the power LED blinks twice: ✳✳.
2. Press 9 9 3.
3. Press AMP. The power key LED blinks twice: ✳✳.

Key mover

Sometimes you might find that a key you use a lot for your system is in the 'wrong' place on the CR104 keypad for your comfort. It's quite easy to reassign a favourite function to a more accessible key. It is even possible to move a function from one Device Mode to another Device Mode.

Example: To assign the DISP function to the MENU key in SAT mode

1. Press SAT.
2. Press and hold SHIFT until the power LED blinks twice: ✳✳.
3. Press 9 9 4.
4. Press the key you want to move (e.g. DISP)
5. Press the key you want to move the key to (e.g. MENU).

Now, pressing either DISP or MENU while in SAT Device Mode makes the CR104 transmit the DISP function.

To completely swap over the functionality of the two keys to put the MENU functionality on the DISP key, repeat the above process again, but swap over the DISP and MENU key presses in the example.

Note that the function that is copied over to the new key is always the original function of the old key.

Restore a moved key

To restore a key to its previous function, repeat the example above, pressing the key to be restored twice (copy it back to itself).

Restore all moved keys for a Device Mode

To restore all keys in a Device Mode to their original functional positions, repeat the example above, but press the relevant Device Mode key (e.g. AMP) at points 1, 4 and 5 in the example.

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Copy a key between Device Modes

It is possible to copy functions between Device Modes. However, remember that button functions are Device Mode specific and therefore effectively 'punch-through' to the original Device Mode when copied over.

The following example copies the AVR500/AVR600/AV888 **DIRECT** function from the CR104 **AMP** device mode to the shifted function of the ■ button on **AV** Device Mode.

1. Press and hold SHIFT until the power LED blinks twice: ✳ ✳.
2. Press 9 9 4.
3. Press the Device Mode key of the function you want to move (e.g. AMP).
4. Press the function key you want to move (e.g. ◀◀/**DIRECT**)
5. Press the key of the Device Mode you want to copy the function to (e.g. AV)
6. Press the SHIFT button graphic
7. Press the key you want to copy the function to (e.g. ■)

If you prefer to copy the key to the main function of the ■ button instead of the 'shifted' function, omit point 6 in the above example.

Mode mover

If your home entertainment setup contains devices of the same type (e.g. two TVs, perhaps from different manufacturers) you can still control both those devices with the CR104. You simply need to reassign an ***unused*** Device Mode key.

> ***NOTE***
>
> Before using Mode Mover, make sure both the source and destination Device Mode keys are unlocked (see next section).

Example: To use the SAT key to control a second TV

1. Press and hold SHIFT until the power LED blinks twice: ✳ ✳.
2. Press 9 9 2.
3. Press the Device Mode key for the type of device you want to control (e.g. for a TV, press AV).
4. Press the Device Mode key you want to use (e.g. SAT).
5. Don't forget to set up the CR104 to control the second device, using one of the methods from 'Controlling other devices' on page E-14.

Note that volume punch-through is not applied to a Device Mode that has been copied using Mode Mover. However, volume punch-through functionality can be restored when you have used Mode Mover, by copying −, + and 🔇 from the AMP Device Mode to the same physical buttons on the new moved Device Mode using the last example shown in Key Mover.

To restore a moved Device Mode key to its original state

1. Press and hold SHIFT until the power LED blinks twice: ✳ ✳.
2. Press 9 9 2.
3. Press the Device Mode key you want to restore ***twice***.

Locking/unlocking a specific Device Mode

When you first unpack your CR104 and insert the batteries, for your convenience it is able to control certain Arcam components automatically (e.g. DVD players, Amplifiers, Tuners and CD Players). We achieve this by preprogramming specific Arcam device codes onto the relevant Device Mode keys, then locking the Device Modes so you don't reprogram them inadvertently.

If you want to override these locked default settings – to control a third-party CD player, for example – you will first need to unlock CD Mode before setting up the CR104 using one of the methods described at the start of this guide.

Here are the factory default settings:

Device Mode	Default status	Default Arcam codes
BD	Locked	0762
SAT	Unlocked	1205
AV	Unlocked	0586
TUN	Locked	2009
AMP	Locked	1242
PVR	Unlocked	1930
VCR	Unlocked	0111
CD	Locked	2010

Alternative codes are available for multi-room solutions, or in the case of code clashes with other manufacturer's products.

For example:

AMP (system code 19) 1954

You will need to change the system code on the product you wish to control, as well as the CR104.

> ***NOTE***
>
> The **AMP** Device Mode can only be used to control Arcam amplifiers like the AVR500, AVR600 and AV888, either on its default or alternative IR system codes.

To toggle a Device Mode lock setting:

1. Press the Device Mode key you want to unlock (e.g. CD)
2. Press and hold SHIFT until the power LED blinks twice: ✳ ✳.
3. Press 9 8 2.

- The power LED blinks twice when being locked, and blinks four times when being unlocked.
- If you enter an invalid key sequence, the power LED gives one long blink and returns to normal operation.

While the Device Mode key is locked, the Direct Code Setup and Move Mode functions are not available.

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Mode key IR punch-through

The Mode key IR punch-through default is 'on'.

Example: To set the Mode key IR punch-through to AMP

1. Press and hold (SHIFT) until the power LED blinks twice: ☼ ☼.
2. Press (9) (7) (1). The power LED blinks twice: ☼ ☼.
3. Press (AMP) to punch through IR from it.

Now, whenever you press and release a Mode key, the IR data assigned to **AMP** is transmitted, no matter what the current mode is (i.e. it 'punches through' any other device).

To cancel Mode key IR punch-through

1. Press and hold (SHIFT) until the power LED blinks twice: ☼ ☼.
2. Press (9) (7) (1). The power LED blinks twice: ☼ ☼.
3. Press (SHIFT) until the power LED blinks twice: ☼ ☼.

Resetting the CR104

Resetting the CR104 will erase all learned functions across all modes, as well as some other programmed functions like Macros. It will not reset the Device Mode keys; these will remain programmed to your choice of component.

1. Press and hold (SHIFT) until the power LED blinks twice: ☼ ☼.
2. Press (9) (8) (0). The power LED blinks four times: ☼ ☼ ☼ ☼.
3. Press and hold (SHIFT) until the power LED blinks twice: ☼ ☼.
4. Press (9) (9) (3).
5. Press (AMP). The power key LED blinks twice: ☼ ☼.
6. Press and hold (SHIFT) until the power LED blinks twice: ☼ ☼.
7. Press (9) (7) (1). The power LED blinks twice: ☼ ☼.
8. Press (AMP). The power key LED blinks twice: ☼ ☼.

Command summary

Direct code setup

(e.g. AV mode, NNNN=code number)

(AV) (SHIFT) ☼ ☼ NNNN ☼ ☼ (⏻)

Library search

(e.g. AV mode)

(AV) (SHIFT) (9) (9) (1) ☼ ☼ (⏻) (⏯) until unit turns off (SHIFT) to save

Code blink back

(AV) (SHIFT) (9) (9) (0) ☼☼

(1) count blinks for first *N*

(2) count blinks for second *N*

(3) count blinks for third *N*

(4) count blinks for fourth *N*

Code learning

(e.g. AV mode fast forward key)

(SHIFT) ☼ ☼ (9) (7) (5) ☼ ☼ (AV) (⏩) ☼ (many rapid blinks)

(Press key on original remote that you wish to copy)

☼ ☼ (SHIFT) ☼ ☼

Delete a learned function

(e.g. AV mode fast forward key)

(SHIFT) ☼ ☼ (9) (7) (5) ☼ ☼ (AV) (⏩) (⏩) ☼ ☼

Delete all learned functions with a device

(e.g. AV mode)

(SHIFT) ☼ ☼ (9) (7) (5) (AV) (AV)

Creating macros

(e.g. SRCH key)

(SHIFT) ☼ ☼ (9) (9) (5) (SRCH) (AV) (⏻) (VCR) (⏻) (SAT) (⏻) (SHIFT) ☼ ☼

Deassign macro

(SHIFT) ☼ ☼ (9) (9) (5) (SRCH) (SHIFT) ☼ ☼

Key mover

(e.g. SAT mode, DISP key to MENU key)

(SAT) (SHIFT) ☼ ☼ (9) (9) (4) (DISP) (MENU)

Mode mover

(e.g. change SAT to TV(AV))

(SHIFT) ☼ ☼ (9) (9) (2) (AV) (SAT)

Restore device mode

(e.g. restore SAT)

(SHIFT) ☼ ☼ (9) (9) (2) (SAT) (SAT)

Locking/unlocking a mode

(e.g. CD mode)

(CD) (SHIFT) ☼ ☼ (9) (8) (2) ☼ ☼

(i.e. two blinks for lock)

(CD) (SHIFT) ☼ ☼ (9) (8) (2) ☼ ☼ ☼ ☼

(i.e. four blinks for unlock)

Cancel all volume punch-through

(SHIFT) ☼ ☼ (9) (9) (3) (+) ☼ ☼ ☼ ☼

Restore volume punch-through

(SHIFT) ☼ ☼ (9) (9) (3) (AMP) ☼ ☼

Mode key IR punch-through

(SHIFT) ☼ ☼ (9) (7) (1) ☼ ☼ (AMP)

Cancel mode key IR punch-through

(SHIFT) ☼ ☼ (9) (7) (1) ☼ ☼ (SHIFT) ☼ ☼

NOTE

As elsewhere in this Handbook, a single 'blink' of the red LED behind the power button is indicated by the symbol ☼.

Device codes

The tables that begin on page E-29 (in the final section of this Handbook) list the four-figure codes for different manufacturers' devices.

Use these when setting your CR104 up to control your devices, as described in Method 1 (see page E-14).

If more than one code number is listed, try the first number. If the results are unsatisfactory, continue trying the numbers for that manufacturer to get the best 'fit' with the functionality required.

If the manufacturer of your equipment is not listed, you can try Method 2, the Library Search (see page E-14). This allows you to scan through every set of codes contained in the CR104's memory.

English

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specifications

Analogue Audio Output	
Digital to Analogue conversion	24-bit 192kHz Delta-Sigma DAC
Signal to noise ratio	110dB CCIR
Harmonic distortion (1kHz)	0.002%
Frequency response (±0.5dB)	10Hz–20kHz
Output level (0dB)	2.2Vrms
Output impedance	47Ω
Minimum recommended load	5kΩ
Video Outputs	
Composite video	1 x phono. 1V pk-pk in 75Ω
Component video	Interlaced or Progressive 3 phono sockets. Y 1V pk-pk in 75Ω, Pb 0.7V pk-pk in 75Ω, Pr 0.7V pk-pk in 75Ω
HDMI	19-pin HDMI connector Supported video formats are: 720 x 576p, 720(1440) x 576i, 720 x 480p, 720(1440) x 480i, 1280 x 720p, 1920 x 1080i, 1920 x 1080p Audio to 8-channel/96kHz or 2-channel/192kHz (24-bit).
Digital interfaces	
USB	USB 2.0 High Speed (480 Mbit/s)
Network	10 BASE-T / 100 BASE-TX
Physical	
Dimensions	W433 x D400 x H100mm
Weight	6.2kg nett/8.5kg packed
Power consumption	17W maximum
Digital output connection	75Ω co-axial optical TOSLINK
Supplied accessories	
	Mains lead CR104 remote control 4 x AAA batteries
E&OE	
NOTE: All specification values are typical unless otherwise stated	

Radio interference

The BDP300 Blu-ray Disc player is a digital device which has been designed to very high standards of electromagnetic compatibility.

All Blu-ray players generate, and can radiate RF (radio frequency) energy. In some cases this can cause interference with FM and AM radio reception. If this is the case, keep the player and its connecting cables as far from the tuner and its aerials as possible. Connecting the player and the tuner to different mains sockets can also help to reduce interference.

EC COUNTRIES – This products have been designed to comply with EMC Directive 2004/108/EC.

USA – These products comply with FCC Part 15 Class B.

Laser radiation

If the BDP300 Blu-ray Disc player is operated whilst the outer casing is removed, invisible laser radiation could cause eye damage.

Continual improvement policy

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ENGLISH

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Ty Coon, President of Vice

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product guarantee

Worldwide Guarantee

This entitles you to have the unit repaired free of charge, during the first two years after purchase, provided that it was originally purchased from an authorised Arcam dealer. The Arcam dealer is responsible for all after-sales service. The manufacturer can take no responsibility for defects arising from accident, misuse, abuse, wear and tear, neglect or through unauthorised adjustment and/or repair, neither can they accept responsibility for damage or loss occurring during transit to or from the person claiming under the guarantee.

The warranty covers:

Parts and labour costs for two years from the purchase date. After two years you must pay for both parts and labour costs. **The warranty does not cover transportation costs at any time.**

Claims under guarantee

This equipment should be packed in the original packing and returned to the dealer **from whom it was purchased**. It should be sent carriage prepaid by a reputable carrier – **not** by post. No responsibility can be accepted for the unit whilst in transit to the dealer or distributor and customers are therefore advised to insure the unit against loss or damage whilst in transit.

For further details contact Arcam at:

Arcam Customer Support Department,
Pembroke Avenue, Waterbeach, CAMBRIDGE, CB25 9QR, England

or via ***www.arcam.co.uk***.

Problems?

If your Arcam dealer is unable to answer any query regarding this or any other Arcam product please contact Arcam Customer Support at the above address and we will do our best to help you.

On-line registration

You can register your product on-line at ***www.arcam.co.uk***.

English

Correct disposal of this product

This marking indicates that this product should not be disposed with other household waste throughout the EU.

To prevent possible harm to the environment or human health from uncontrolled waste disposal and to conserve material resources, this product should be recycled responsibly.

To dispose of your product, please use your local return and collection systems or contact the retailer where the product was purchased.

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device code tables

tableaux des codes d'unité source

code-tabelle für fremdgeräte

tabellen apparaatcodes

tablas de códigos de dispositivos

таблицы кодов устройств

TV

888	0294
A.R. Systems	0067 0382 0586 0404 0485
Accent	0039 0067 0586
Accusound	0890
Acoustic Research	1299
Acoustic Solutions	1179 1067
Acura	0039
Adcom	0655
Addison	0683 0138
ADL	1247 0920
Admiral	0123 0193 0448 0294
Advent	0906
Adyson	0247 0246
AEA	0067 0586
AEG	0636 1067 1179 1193
Aftron	0921
Agashi	0294 0246 0247
Aiko	0039 0067 0586 0246 0065 0463 0910 0294 0247
Aim	0067 0586 0783 0238 0736 0728 0664 0404 0485 0636 0529
Aiwa	1535
Akai	0039 0238 0586 0067 0463 0065 0783 0193 0759 0744 0736 0728 0745 0632 0578 0510 0247 0294 0661 0246 0208 0407 0636 1067 0503 1289 1278
Akashi	0890 0039
Akiba	0485 0067 0586
Akira	0448 0783 0067
Akito	0067 0586
Akura	0067 0294 0586 0698 0039 0744 1393
Alaron	0246
Alba	0039 0067 1067 0586 0744 0448 0400 0698 0246 0193 0517 0473
Alkos	0065
Allorgan	0247
Allstar	0067 0586
All-Tel	0895 1299
Amplivision	0247 0400
Amstrad	0039 0067 0294 0463 0586 1067
Anam	0067 0586 0039 0680
Anam National	0067 0586 0680
Andersson	1193 1179
Anglo	0039 0294
Anitech	0039 0294 0067 0586
Ansonic	0400 0067 0586 0039 0698 0404 0193
AOC	0655 0039 0090 0123 0138 0208
Aolinpike	0294
Apex Digital	1247
Apollo	0503
Arc en Ciel	0139
Arcam	0246 0247
Arçelik	0744
Ardem	0744 0516 0663 0067 0586
Arena	0067
Aristona	0586 0067
Arthur Martin	0193
ASA	0135 0376 0100 0193
Asberg	0067 0586
Asora	0039
Astra	0067 0586
Asuka	0247 0246 0294
ATD	0728
Atlantic	0067 0586 0246
Atori	0039
Auchan	0193
Audiosonic	0039 0067 0404 0850 0586 0139 0744 0745 0247 0400 0294 0516
Audioton	0247 0516 0400 0294
Audioworld	0728
Aumark	0090
Autovox	0247
AWA	0039 0404 0067 0586 0246 0636 0247 0138 0294 1406 0208 0728
Axxent	0039
Axxon	0744
B&D	1247
Baier	0906
Baihe	0039 0294
Baile	0039 0404 0691
Baird	0373 0139 0247 0238 1226 0636
Bang & Olufsen	0595
BaoHuaShi	0294
Baosheng	0039
Barco	0193
Base	0810
Basic Line	0039 0404 1179 0067 0193 0698 0586 0247 0485 1067
Bastide	0247
Bauer	0039 0728 0736 0294
Baur	0039 0067 0542 0225 0586 1535
Bazin	0247
Beaumark	0208
Beijing	0039 0238 0256 0294 0404 0512 0691
Beko	0400 0744 0516 0065 0745 0067 0448 0586 0636 0838
Belson	0728 1221
Bennett	0586 0067
Beon	0067 0586 0448
Berthen	0698 0586
Best	0400
Bestar	0067 0586 0400 0404
Bestar-Daewoo	0404
Binatone	0247
Black Diamond	0850 1067 0586 1193 0783 0617
Black Strip	0065
Blaupunkt	0225 0230 0357 0485 0200
Blauren	0404
Blue Sky	0067 1067 0586 0698 0744 1179 0517 0745 0655 1939 0485 1221 0838 1393
Boots	0247 0039
Bork	1393
Bosch	0357
BPL	0067 0586 0926
Brandt	0139 0655 0365 0373 0590
Brandt Electronique	0365
Brinkmann	0067 0586 0698 0448 0516
Brionvega	0067 0586
Britannia	0246 0247
Brother	0294
Bruns	0516
BSR	0193
Bush	0039 1067 0067 0744 0698 0404 0193 0728 0294 0517 0238 0247 0586 0808 1289 1278 0617
Caihong	0039
Caishi	0921
Cameron	0586
Camper	0067 0586 0516
Capsonic	0294
Carad	0640 0067 0586 0698 1067
Carena	0485 0067 0586
Carrefour	0100 0067 0586
Carver	0200
Cascade	0039 0067 0586
Casio	0067 0586 0193
Cathay	0067 0586
CCE	0067 0247 0586
Celestial	0850
Centrex	0810 0921 0728
Centrum	1067
Centurion	0067 0586
CGE	0104 0448 0400 0193
Changcheng	0039 0294 0404 0691
Changfei	0039 0404
Changfeng	0294 0783
Changhai	0039
Changhong	0850 0039 0294 0538
Chengdu	0039
Chimei	1535
Ching Tai	0039
Chun Yun	0039
Chunfeng	0039 0294
Chung Hsin	0138
Chunsun	0039
Cimline	0039
Citizen	0090
City	0039
Clarivox	0067 0448 0586 0100
Clatronic	0067 0400 0744 0294 0586 0247 0039 0636 1193
Clayton	1067
CMS	0246
CMS hightec	0247
Cobolt	0921
Concorde	0039
Condor	0067 0400 0586 0246 0039 0448 0193 0294
Conia	0784 0850
Conrac	0838
Conrad	0067 0586
Conrowa	0039 0294 0728 0783 1200
Contec	0039 0246 0294 0067 0586
Continental Edison	0139 0517
Cosmel	0039 0067 0586
CPTEC	0655 1393
Crosley	0104 0193
Crown	0039 0742 0067 0400 0516 0586 0448 0517 0744 0636 0745 0238 0683 1067 0698
CS Electronics	0246
Curtis Mathes	0090 0123
Cytronix	1328
D.Boss	0067
Daewoo	0664 0691 0529 0404 1939 0067 0586 0039 0246 0247 1167 0208 0200 0910 0138 0906 0895 0728 0744 0736 0808
Dainichi	0246
Dansai	0067 0586 0294 0065 0246 0039 0247 0238
Dantax	0400 0516 0744 1067 0636 0745
Datsura	0238
Dawa	0039 0067 0586
Daytek	0728 0736 1406 0294
Dayton	0039
Daytron	0039 0404 0067 0586
Dayu	0404 0691
de Graaf	0238 0578 0193
DEC	0890 0921 0926
Decca	0067 0586 0247 1167
Deitron	0067 0586 0404
Denko	0294
Denver	0067 0586 0636 1219 0617
Desmet	0067 0586 0039
Diamant	0067 0586
Diamond	0294 0728 0039 0855 0246 0890 0850 0926 0736
DiBoss	0067 0586
Digatron	0067 0586
Digihome	1179
Digiline	0067 0586 0135 0698
DigiLogic	0067 0586
Digimate	0920
Digitex	0850
Digitor	0067 0586
DigiX	0910
DiK	0067 0586
Dixi	0039 0067 0586 0247
DL	0921 0810 0067 0617 0895 1393
Domeos	0698 0067 1067
Domland	0424
Dongda	0039
Donghai	0039
Dream Vision	1734
DSE	0850 0728
DTS	0039
Dual	0247 0373 0067 0586 0382 0424 0193 1167 0661 1179 1067 0808 1193
Dual Tec	0247
Dumont	0100 0247
Dunai	0193
Durabrand	0067 0208 0586 1067
Dux	0067 0586
D-Vision	0067 0586
DVX	0921
Dynatech	0247
Dynatron	0067 0586
e:max	0636
Easy Living	1278 1289 1247 0907
Ecco	0803 0736 0728
ECE	0067 0586
Edison-Minerva	0517
Elbe	0640 0400 0193 0067 0586 0247
Elcit	0193
Electrograph	1785
Elekta	0039 0067 0586 0294
Elfunk	1238 1067
ELG	0067 0586
Elin	0067 0246 0578 0586 0135 0193 0039
Elite	0067 0586
Elta	0039 0294 0246
Emerson	0208 0744 0067 0586 0100 1939 0516 0400 0193 0698
Enzer	0783 0803 0890
Erae	1401 1221
Erres	0067 0586
ESC	0067 0586 0247
Estèle	0193
Ether	0039
Etron	0039 0067 0586 0850 0193
Eurofeel	0294 0247
EuroLine	0067
Euroman	0246 0294 0067 0586 0247 0400
Europa	0067 0586
Europhon	0067 0193 0247 0586 0246
Evesham	1278 1289
Excel	0067 0586
Excello	1067
Expert	0193
Exquisit	0067 0586
Fagor	0067 0586
FairTec	1221
Family Life	0067 0586
Feilang	0039
Feilu	0039
Feiyan	0294
Feiyue	0039
Fenner	0404 0039

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Ferguson	0067 0139 0655 0365 0373 0590 0586 0065 0683 0138 0578 0473 1067
Fidelity	0193 0246 0542 0067 0586 0294
Filsai	0247
Finlandia	0238 0376 0578 0193 0373
Finlux	0067 0135 0100 0586 0744 0376 0247 0193 0745 0661 0522 0510 0503 0448 0636 0838 1278
Firstar	0039
Firstline	0039 0067 0586 0246 0247 0404 0698 0744 0193 1939 0238 1067 1221 0838 1393 1193 1401
Fisher	0247 0238 0400 0193
Flint	0067 0485 0586 0640 0294
Force	1179
Formenti	0067 0193 0586 0516 0246
Formenti-Phoenix	0246
Fortress	0123
Fraba	0067 0586 0400
Friac	0039 0067 0586 0400 0529 0640
Frontech	0193 0294 0247 0039
Fuchsware	0810
Fujimaro	0895
Fujitsu	0713 0883 0247 0193 0039 0382 0067 0586
Fujitsu General	0039 0247 0193
Fujitsu Siemens	1328 1289 1278 1193 0838
Funai	0294 1067 0698 1535 0744
Furi	0294
Furichi	0890
Futronic	0294 0890 0728
Future	0067 0586
Gaba	1067 0067
Galaxi	0067 0586 0193
Galaxis	0400 0448 0067 0586
Galeria	0039
Garza	0586
Gateway	1785
GBC	0193 0039 0404
GE	0373 0208 0123 0590 0139 0365 0655
Geant Casino	0193
GEC	0067 0193 0247 0586
Geloso	0039 0193 0404
General	0139
General Electric	0373
General Technic	0039
Genesis	0039 0067 0586
Genexxa	0193 0067 0586 0039
Gericom	0895 1328 1247 0910 0838
Gevalt	1401 1221
G-Hanz	1393
Giant	0247 0039
Go Video	0090
Goldfunk	0698
Goldhand	0246
GoldStar	0067 0039 0208 0400 0407 0247 0586 0246 0193 0139 0636 0744 0745 0485
Gooding	0517
Goodmans	0664 0745 1289 1067 1278 0067 0529 0586 0247 0744 0698 0373 1939 0404 1193 0294 0039 0517 0065 0510 0590 0365 0691 0910 0617 1406 1179
Gorenje	0400
GP	0783
Gradiente	0683 0200 0067 0586
Graetz	0744 0193 0067 0586 1193
Granada	0067 0586 0238 0256 0247 0138 0503 0365 0590 0193 0373 0578
Grandin	0067 0586 0039 0193 0640 0744 0745 0698 0404 0485 1067 0895 1221 0910
Gronic	0247 0193
Grundig	0225 0538 1401 1221 0067 0100 0473 0517 0586 0617 0736 1067 0039 0400 0208 1406 0373 1289
Grunkel	1193
H&B	0838
Haaz	0736
Haier	0728 0294 0067 0538 0617 0926
Haihong	0039
Haiyan	0294
Halifax	0294 0246 0247
Hallmark	0208
Hammerstein	0294 0090
Hampton	0246 0247
Hankook	0208
Hanseatic	0067 0586 0529 0193 0691 0424 0664 0400 0039 0247 0407 0744 0838 0516 0655
Hantarex	0039 0067 0586 0895
Hantor	0067 0586
Harsper	0895
Harwa	0803 1226 1299
Harwood	0039 0067 0586 0517
Hauppauge	0067 0586
Havermy	0123
HCM	0039 0067 0586 0247 0448 0294 1226
Hedzon	0586 0067
Hema	0247 0039
Hicon	1328
Hifivox	0139
Higashi	0246
Highline	0294 0067 0586
Hinari	0039 0238 0067 0586 0193 0473 0517 0294
Hisawa	0485 0640 0744
Hisense	1393 0238 0039 0538 0783 0728 0921 0890 0810 1200 1238 0586
Hitachi	1606 0039 0511 0608 0138 0774 1067 1511 0139 0193 1255 0664 0208 0503 0247 0373 0538 1193 0578 0529 1179 1200 0510 0067 0586 1167 0135 0522 0907
Hitachi Fujian	0138 0067 0586 0890 0529
Hitsu	0039 0640 0485
Höher	0744 0895 1193
Home Electronics	0636
Hongmei	0039 0123 0294
Hongyan	0294
Hornyphon	0067 0586
Hoshai	0485
Hua Tun	0039
Huafa	0039
Huanghaimei	0039
Huanghe	0039
Huanglong	0039
Huangshan	0039 0294
Huanyu	0246 0404 0294
Huaqiang	0294
Huari	0294
Hugoson	0920 1247
HYD	1406
Hygashi	0247 0246
Hyper	0039 0246 0247
Hypson	0067 0294 0586 0744 0745 0247 0485 1067 0698 0516
Hyundai	0067 0890 0895 0586 0728 0783 0294 1067 0906 0736 1406 0808
Iberia	0067 0586
ICE	0247 0294 0067 0039 0586 0246
Ices	0246
Ict	0067 1167 0586
IISonic	1406
Iiyama	1247 0920
Imperial	0067 0104 0193 0400 0448 0538 0586
Imperial Crown	0039 0294 0404 0691
Indiana	0067 0586
InFocus	0782 1194
Ingelen	0193 0517 0640 0744
Ingersoll	0039
Inno Hit	0039 1067 0067 0586 0247 1193
Innova	0067
Innovation	0067 0586
Innowert	0895 1328
Inotech	0803 0850
Interactive	0067 0586 0542 0357 0193 0400 0139
Interbuy	0039 0067 0294 0542 0586
Interfunk	0067 0193 0586 0542 0357 0400 0139 0230
Internal	0067 0586 0529 0404 1939
International	0246
Intervision	0067 0247 0485 0294 0407 0516 0400 0424 0517 0193 0039 0586
Ipure	1406
Irradio	0039 0067 0586 0744
IRT	0728
Isukai	0067 0586 0485
ITC	0247
ITS	0067 0294 0246 0039 0586
ITT	0193 0510 0578 0503 0376 0238 0640
ITT Nokia	0578 0193 0503 0510 0376 0238 0636 0640 0661
ITV	0067 0294 0586 0404
Jean	0039
JEC	0065
Jialicai	0039 0294
Jinfeng	0238 0256
Jinque	0039 0294
Jinta	0039 0294
Jinxing	0039 0294 0728 0067 0586
JMB	0067 0529 0664 0404 0586 0473
JNC	0906 0926
Jocel	0742
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